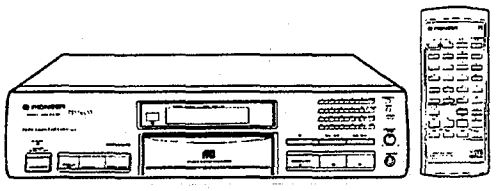
PIONEER®
The Art of Entertainment

Service Manual



ORDER NO.
RRV1595

COMPACT DISC PLAYER

PD-S605
PD-S505
PD-S505-G

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model			Power Requirement	The voltage can be converted by the following method.
	PD-S605	PD-S505	PD-S505-G		
WYXK	○	○	○	AC220-240V	———
WVXK	–	○	–	AC220-240V	———
WPW	–	○	–	AC220-240V	———
RD	–	○	–	AC110-127V/220-240V	With the voltage selector
RL	–	○	–	AC110-120V/220-240V	With the voltage selector

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1. SAFETY INFORMATION

VARO!
AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

ADVERSEL:
USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UNDGÅ UDSAETTELSE FOR STRÅLING.

VARNING!
OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.

LASER
Kuva 1
Lasersateilyn varoitusmerkki

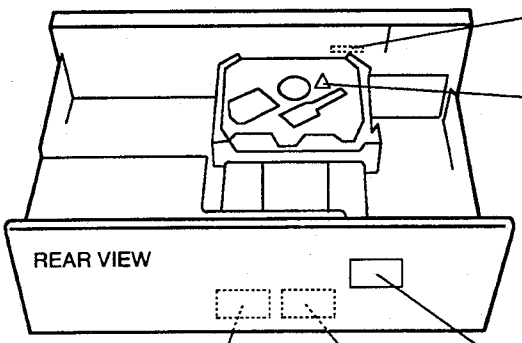
WARNING!
DEVICE INCLUDES LASER DIODE WHICH EMITS INVISIBLE INFRARED RADIATION WHICH IS DANGEROUS TO EYES. THERE IS A WARNING SIGN ACCORDING TO PICTURE 1 INSIDE THE DEVICE CLOSE TO THE LASER DIODE.

IMPORTANT
THIS PIONEER APPARATUS CONTAINS LASER OF CLASS 1.
SERVICING OPERATION OF THE APPARATUS SHOULD BE DONE BY A SPECIALLY INSTRUCTED PERSON.

LASER DIODE CHARACTERISTICS
MAXIMUM OUTPUT POWER: 5 mw
WAVELENGTH: 780-785 nm

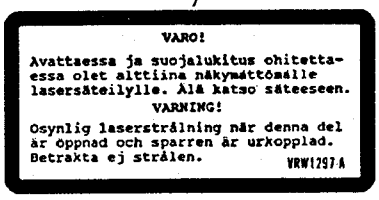
LASER
Picture 1
Warning sign for laser radiation

LABEL CHECK



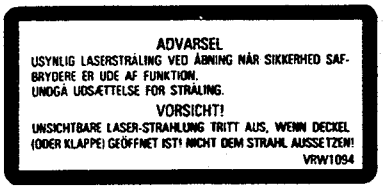
INSERT DISC LABEL SIDE DOWN **All Types**

WYXK, WVXK, WPW and RL Types


VARO!
Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.
VARNING!
Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.
VRW1297-A

WYXK Type

WYXK, WVXK, WPW and RL Types


ADVARSEL
USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHED SAFBRYDERE ER UDE AF FUNKTION.
UNDGÅ UDSÆTTELSE FOR STRÅLING.
VORSICHT!
UNSICHTBARE LASER-STRAHLUNG TRITT AUS, WENN DECKEL (ODER KLAPPE) GEÖFFNET IST! NICHT DEM STRAHL AUSSETZEN!
VRW1094

WYXK Type

WVXK, WPW and RL Types

Additional Laser Caution

1. Laser Interlock Mechanism
   The position of the switch (S601) for detecting loading completion is detected by the system microprocessor, and the design prevents laser diode oscillation when the switch (S601) is not $\overline{\text{CLMP}}$ terminal side (when $\overline{\text{CLMP}}$ signal is OFF, that is, high level).
   Thus, the interlock will no longer function if the switch (S601) is deliberately set to $\overline{\text{CLMP}}$ terminal side (if $\overline{\text{CLMP}}$ signal is low level).
   In the test mode *, the interlock mechanism will not function.
   Laser diode oscillation will continue, if pin 1 of M51593FP (IC101) on the preamplifier board loaded on PICKUP Assy are connected to GND, or pin 19 is connected to low level (ON), or else the terminals of Q101 are shorted to each other (fault condition).

2. When the cover is opened with the servo mechanism block removed to be turned over, close viewing of the objective lens with the naked eye will cause exposure to a Class 1 laser beam.

* : Refer to page 32.

2. EXPLODED VIEWS, PACKING AND PARTS LIST

NOTES:

- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

2.1 EXTERIOR SECTION

(1) CONTRAST OF PD-S605/WYXK, PD-S505/WYXK, WVXK, WPW, RD, RL AND PD-S505-G/WYXK

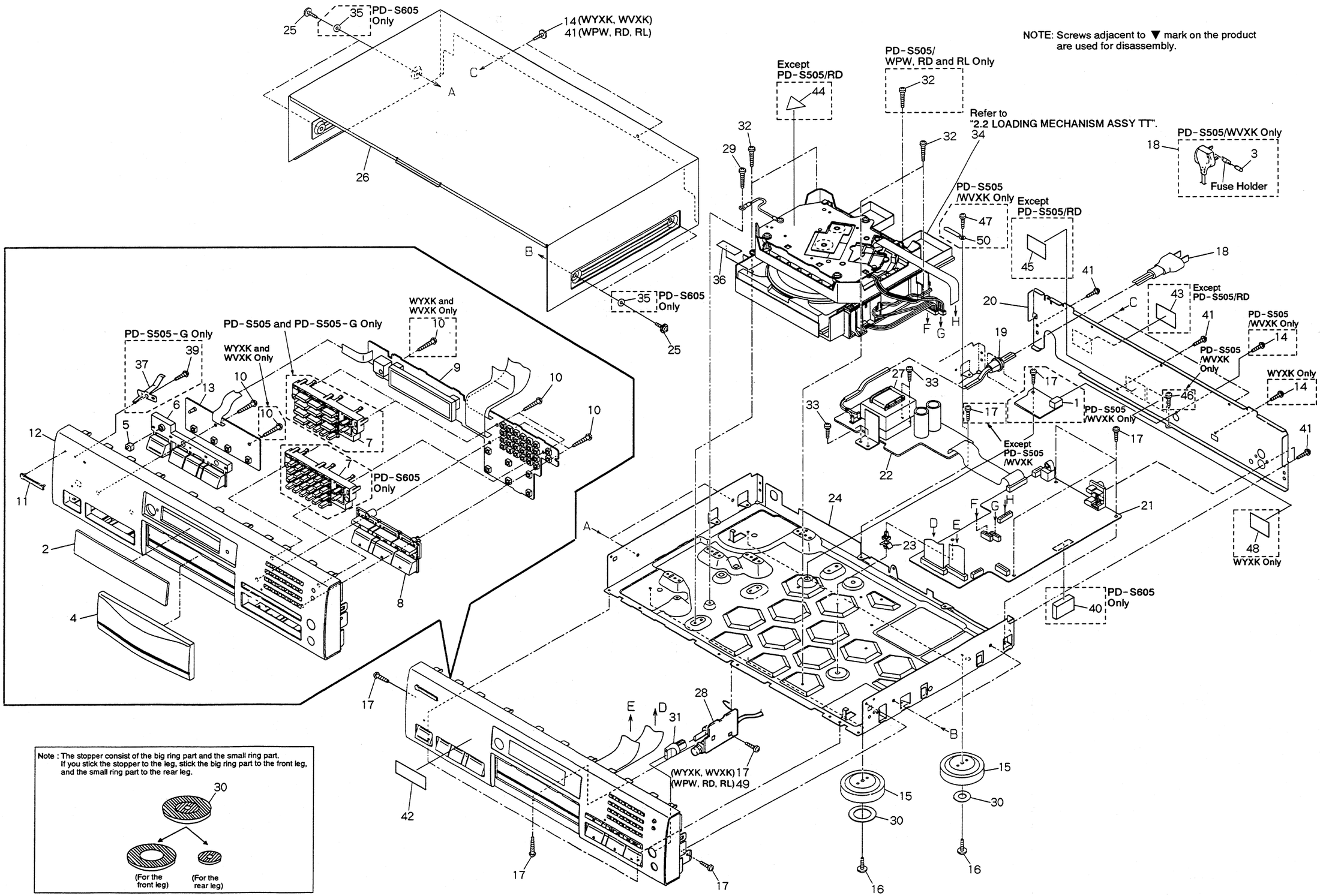
PD-S605/WYXK, PD-S505/WYXK, WVXK, WPW, RD, RL and PD-S505-G/WYXK have the same construction except for the following:

Mark	No.	Symbol & Description	Part No.							Remarks
			PD-S605 /WYXK	PD-S505 /WYXK	PD-S505 /WVXK	PD-S505 /WPW	PD-S505 /RD	PD-S505 /RL	PD-S505 -G/WYXK	
NSP	1	COAXIAL OUTPUT PCB Assy	Not used	Not used	PWZ3256	Not used	Not used	Not used	Not used	
	2	Display Window	PAM1612	PAM1612	PAM1612	PAM1597	PAM1597	PAM1597	PAM1612	
⚠	3	Fuse (T5A)	Not used	Not used	PEK1003	Not used	Not used	Not used	Not used	
	4	Tray Name Plate	PNW2658	PNW2658	PNW2658	PNW2658	PNW2658	PNW2658	PNW2665	
	6	Power Button	PAC1712	PAC1712	PAC1712	PAC1712	PAC1712	PAC1712	PAC1779	
	7	26 Key	PAC1715	Not used	Not used	Not used	Not used	Not used	Not used	
	7	10 Key	Not used	PAC1714	PAC1714	PAC1714	PAC1714	PAC1714	PAC1824	
	8	Function Button	PAC1713	PAC1713	PAC1713	PAC1713	PAC1713	PAC1713	PAC1780	
NSP	9	FUNCTION PCB Assy	PWZ2871	PWZ2853	PWZ2853	PWZ2837	PWZ2837	PWZ2837	PWZ2853	
	11	PIONEER Badge	PAM1608	PAM1608	PAM1608	PAM1704	PAM1704	PAM1704	RAN1011	
	12	Function Panel	PNW2664	PNW2659	PNW2659	PNW2659	PNW2659	PNW2659	PNW2663	
NSP	13	SWITCH PCB Assy	PWZ2874	PWZ3108	PWZ3108	PWZ2615	PWZ2615	PWZ2615	PWZ3108	
	14	Screw	ABA1192	ABA1192	ABA1192	Not used	Not used	Not used	ABA1192	
	16	Screw	ABA1050	ABA1050	ABA1050	IBZ30P100FCC	IBZ30P100FCC	IBZ30P100FCC	ABA1050	
	17	Screw	ABA1011	ABA1011	ABA1011	BBZ30P060FCC	BBZ30P060FCC	BBZ30P060FCC	ABA1011	
⚠	18	AC Power Cord	PDG1003	PDG1003	PDG1055	RDG1022	PDG1013	PDG1003	PDG1003	
NSP	20	Rear Base	PNA2272	PNA2269	PNA2270	PNA2267	PNA2262	PNA2268	PNA2271	
⚠	21	MAIN PCB Assy	PWZ3249	PWZ3243	PWZ3244	PWZ3242	PWZ3241	PWZ3241	PWZ3243	
NSP	22	SERVO TRANS PCB Assy	PWZ2877	PWZ3111	PWZ3111	PWZ3113	PWZ3112	PWZ3112	PWZ3111	
	25	Screw	FBT40P080FZK	FBT40P080FZK	FBT40P080FZK	FBT40P080FZK	FBT40P080FZK	FBT40P080FZK	FBT40P080FNI	
	26	Bonnet	PYY1162	PYY1162	PYY1162	PYY1162	PYY1162	PYY1162	PYY1177	
⚠	27	Power Transformer (AC220-240V)	PTT1236	PTT1236	PTT1236	PTT1236	Not used	Not used	PTT1236	
⚠	27	Power Transformer (AC110-127V/220-240V)	Not used	Not used	Not used	Not used	PTT1238	PTT1238	Not used	
NSP	28	HEADPHONE PCB Assy	PWZ2618	PWZ3114	PWZ3114	PWZ3115	PWZ3115	PWZ3115	PWZ3114	
	31	Headphone Knob	PAC1600	PAC1600	PAC1600	PAC1600	PAC1600	PAC1600	PAC1825	
	33	Screw	ABA1207	BBT30P060FCC	BBT30P060FCC	BBZ30P060FCC	BBZ30P060FCC	BBZ30P060FCC	BBT30P060FCC	
NSP	34	Loading Mechanism Assy TT	PXA1582	PXA1581	PXA1581	PXA1581	PXA1581	PXA1581	PXA1581	
	35	Washer	WG40FCU	Not used	Not used	Not used	Not used	Not used	Not used	
NSP	37	Earth Plate	Not used	Not used	Not used	Not used	Not used	Not used	PBK1132	
	39	Screw	Not used	Not used	Not used	Not used	Not used	Not used	PPZ30P050FMC	
NSP	40	Spacer A	PEB1228	Not used	Not used	Not used	Not used	Not used	Not used	
NSP	43	Caution Label (F)	VRW-328	VRW-328	VRW-328	VRW-328	Not used	VRW-328	VRW-328	
	44	Caution Label (G)	VRW-329	VRW-329	VRW-329	VRW-329	Not used	VRW-329	VRW-329	
	45	Caution Label	VRW1094	VRW1094	PRW1018	PRW1018	Not used	PRW1018	VRW1094	
	46	Screw	Not used	Not used	ABA1101	Not used	Not used	Not used	Not used	
	47	Screw	Not used	Not used	IBZ30P060FCC	Not used	Not used	Not used	Not used	
NSP	48	Caution Label HE	VRW1297	VRW1297	Not used	Not used	Not used	Not used	VRW1297	
	49	Screw	Not used	Not used	Not used	IBZ30P060FCC	IBZ30P060FCC	IBZ30P060FCC	Not used	
	50	Cord Holder	Not used	Not used	DNF1128	Not used	Not used	Not used	Not used	

(2) PARTS LIST FOR PD-S605/WYXK

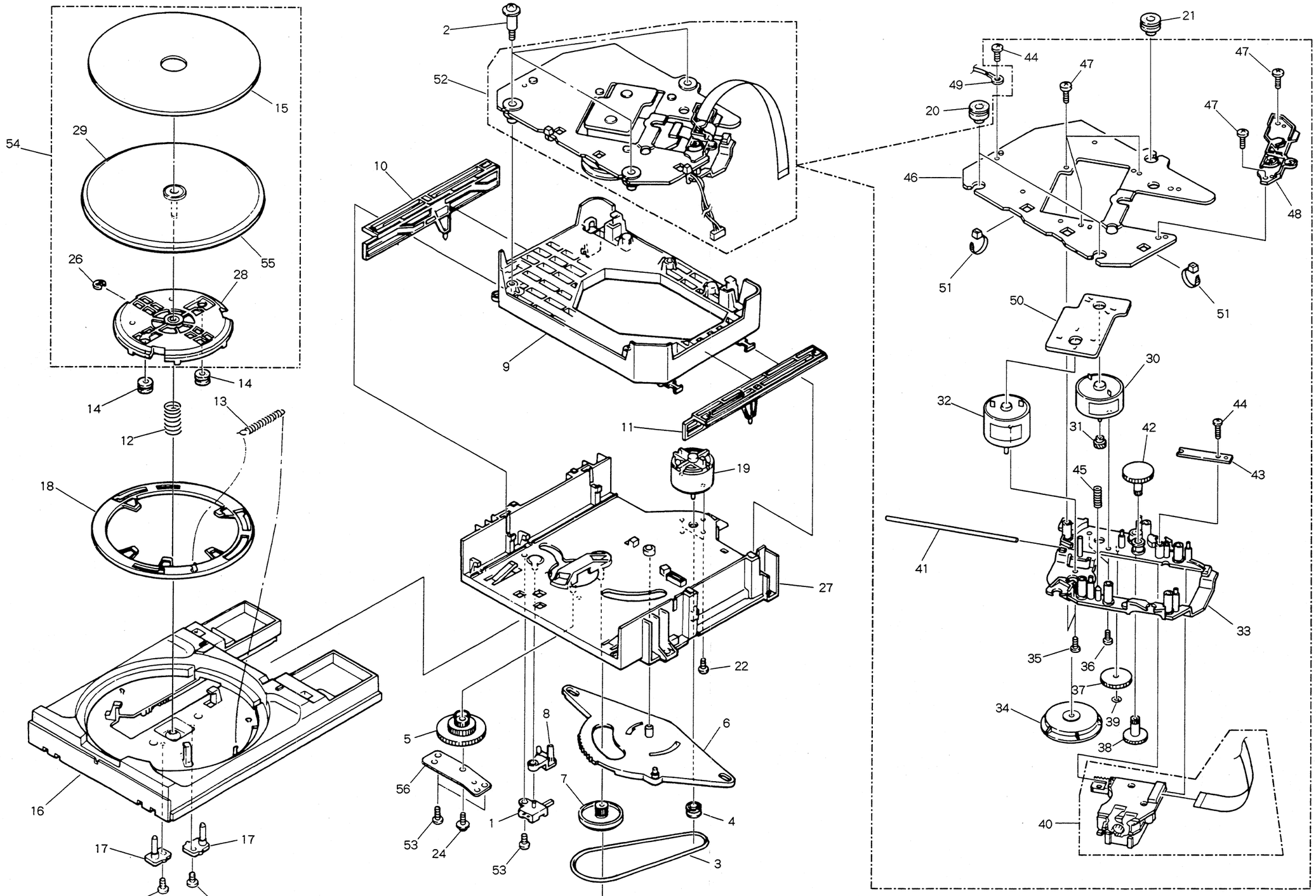
Mark	No.	Description	Part No.
	1	• • • • •	
	2	Display Window	PAM1612
	3	• • • • •	
	4	Tray Name Plate	PNW2658
	5	LED Lens	PNW2019
	6	Power Button	PAC1712
	7	26 Key	PAC1715
	8	Function Button	PAC1713
NSP	9	FUNCTION PCB Assy	PWZ2871
	10	Screw	PPZ30P150FMC
	11	PIONEER Badge	PAM1608
	12	Function Panel	PNW2664
NSP	13	SWITCH PCB Assy	PWZ2874
	14	Screw	ABA1192
	15	Insulator	PNW1263
	16	Screw	ABA1050
	17	Screw	ABA1011
⚠	18	AC Power Cord	PDG1003
⚠	19	Strain Relief	CM-22B
NSP	20	Rear Base	PNA2272
⚠	21	MAIN PCB Assy	PWZ3249
NSP	22	SERVO TRANS PCB Assy	PWZ2877
NSP	23	PCB Holder	PNW2100
NSP	24	Under Base	PNA2214
	25	Screw	FBT40P080FNI

Mark	No.	Description	Part No.
	26	Bonnet	PYY1162
⚠	27	Power Transformer (AC220-240V)	PTT1236
NSP	28	HEADPHONE PCB Assy	PWZ2618
	29	Screw	PDZ30P050FMC
	30	Stopper	PNM1070
	31	Headphone Knob	PAC1600
	32	Screw	BSZ30P070FMC
	33	Screw	ABA1207
NSP	34	Loading Mechanism Assy TT	PXA1582
	35	Washer	WG40FCU
	36	Caution Label	PRW1244
	37	• • • • •	
	38	• • • • •	
	39	• • • • •	
NSP	40	Spacer A	PEB1228
	41	Screw	BBZ30P080FCC
	42	Getter	PRW1455
NSP	43	Caution Label (F)	VRW-328
	44	Caution Label (G)	VRW-329
	45	Caution Label	VRW1094
	46	• • • • •	
	47	• • • • •	
NSP	48	Caution Label HE	VRW1297
	49	• • • • •	
	50	• • • • •	



Note : The stopper consist of the big ring part and the small ring part.
If you stick the stopper to the leg, stick the big ring part to the front leg, and the small ring part to the rear leg.

2.2 LOADING MECHANISM ASSY TT (PXA1582 : PD-S605)
(PXA1581 : PD-S505, PD-S505-G)



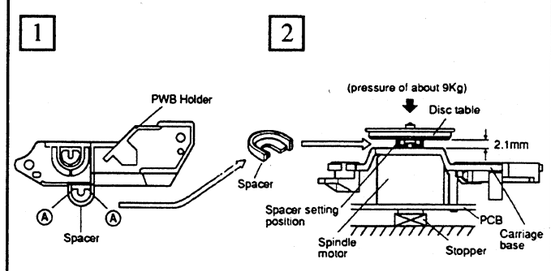
Parts List

Mark	No.	Description	Part No.
	1	Lever Switch (S601)	DSK1003
	2	Float Screw	PBA1027
	3	Rubber Belt	PEB1186
	4	Motor Pulley	PNW1634
	5	Drive Gear	PNW1996
	6	Synchro. Lever	PNW2168
	7	Gear Pulley	PNW1998
	8	SW Head	PNW1999
	9	Float Base	PNW2000
	10	Left Cam	PNW2001
	11	Right Cam	PNW2002
	12	Compression Spring	PBH1120
	13	Tension Spring	PBH1121
	14	Float Rubber	PEB1014
	15	Table Rubber Sheet	PEB1181
	16	Tray	PNW2003
	17	Table Guide	PNW2004
	18	Lock Plate	PNW2005
	19	D.C. motor (0.75W, LOADING)	PXM1010
	20	Rubber Bush	PEB1031
	21	Rubber Bush	PEB1170
	22	Screw	BMZ26P040FMC
	23	Screw	IPZ26P060FCU
	24	Screw	IPZ20P080FMC
	25	• • • • •	
	26	Washer	YE20S
	27	Loading Base	PNW1995
NSP	28	Table Bearing Assy	PXA1383
NSP	29	Turn Table (AL)(PD-S605)	PNR1035
NSP	29	Turn Table (AL) (PD-S505 and PD-S505-G)	PNR1044
	30	D.C. Motor (CARRIAGE)	PXM1027
	31	Pinion Gear	PNW2055
	32	D.C. Motor Assy (SPINDLE)(with oil)	PEA1236
	33	Carriage Base	PNW2445
	34	Disc Table	PNW1067
	35	Screw	JFZ20P030FNI
	36	Screw	JFZ17P025FZK
	37	Gear 3	PNW2054
	38	Gear 2	PNW2053
	39	Washer	WT12D032D025
	40	PICKUP Assy	PEA1291
	41	Guide Bar	PLA1094
	42	Gear 1	PNW2052
NSP	43	Gear Stopper	PNB1303
	44	Screw	BPZ20P060FMC
	45	Spring	PBH1132
NSP	46	Mechanism Base TT	PNB1431
	47	Screw	BPZ26P100FMC
	48	PWB Holder	PNW2057
NSP	49	Earth Lead Unit	XDF-503
	50	MECHANISM PCB Assy	PWX1192
	51	Cord Clamper	PEC-107
NSP	52	Servo Mechanism Assy	PXA1583
	53	Screw	BPZ26P060FMC
	54	Turn Table Assy (PD-S605)	PEA1165
	54	Turn Table Assy (PD-S505 and PD-S505-G)	PEA1199
NSP	55	Table Base Assy	PXA1382
	56	Shaft Holder	PNB1382

• How to install the disc table

1 Use nippers or other tool to cut the two sections marked Ⓐ in figure 1. Then remove the spacer.

2 While supporting the spindle motor shaft with the stopper, put the spacer on top of the carriage base and stick the disc table on top (takes about 9Kg pressure).
Take off the spacer.



2.3 PACKING

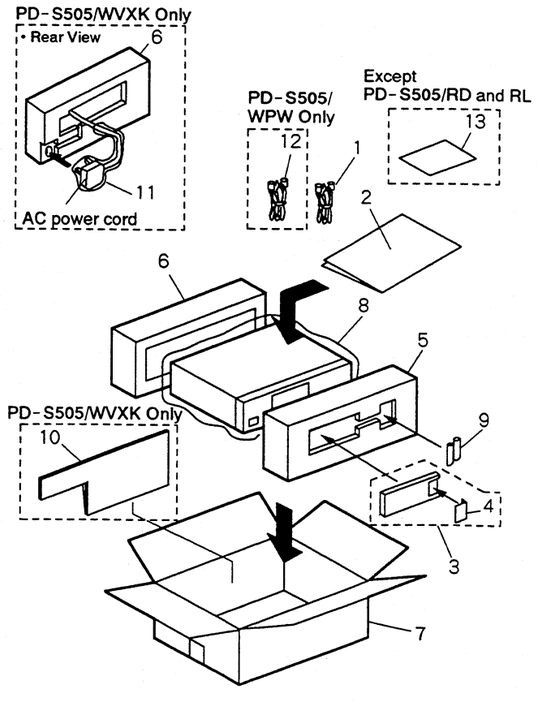
(1) CONTRAST OF PD-S605/WYXK, PD-S505/WYXK, WVXK, WPW, RD, RL AND PD-S505-G/WYXK

PD-S605/WYXK, PD-S505/WYXK, WVXK, WPW, RD, RL and PD-S505-G/WYXK have the same construction except for the following:

Mark	No.	Symbol & Description	Part No. PD-S605 /WYXK	PD-S505 /WYXK	PD-S505 /WVXK	PD-S505 /WPW	PD-S505 /RD	PD-S505 /RL	PD-S505 -G/WYXK	Remarks
	2	Operating Instructions (English/French/German/ Italian/Dutch/Swedish/ Spanish/Portuguese)	PRE1232	PRE1232	Not used	Not used	Not used	Not used	PRE1232	
	2	Operating Instructions (English)	Not used	Not used	PRB1239	Not used	Not used	Not used	Not used	
	2	Operating Instructions (English/Spanish/Chinese)	Not used	Not used	Not used	PRE1231	PRE1231	PRE1231	Not used	
	3	Remote Control Unit	PWW1060	PWW1061	PWW1061	PWW1061	PWW1061	PWW1061	PWW1095	
	4	Battery Lid	PZN1001	PZN1010	PZN1010	PZN1010	PZN1010	PZN1010	PZN1013	
	6	Protector R	PHA1261	PHA1261	PHA1257	PHA1238	PHA1238	PHA1238	PHA1261	
	7	CD Packing Case	PHG2181	PHG2172	PHG2173	PHG2169	PHG2169	PHG2169	PHG2174	
	10	Spacer	Not used	Not used	PHC1078	Not used	Not used	Not used	Not used	
	11	Vinyl. Bag	Not used	Not used	Z21-013	Not used	Not used	Not used	Not used	
	12	Cord with Miniplug	Not used	Not used	Not used	PDE1247	Not used	Not used	Not used	
NSP	13	Warranty Card	ARY7010	ARY7010	ARY7010	PRY1002	Not used	Not used	ARY7010	

(2) PARTS LIST FOR PD-S605/WYXK

Mark	No.	Description	Part No.
	1	Cord with Pin Plug	PDE1248
	2	Operating Instructions (English/French/German/Italian/ Dutch/Swedish/Spanish/Portuguese)	PRE1232
	3	Remote Control Unit	PWW1060
	4	Battery Lid	PZN1001
	5	Protector F	PHA1237
	6	Protector R	PHA1261
	7	CD Packing Case	PHG2181
	8	Mirror Mat Sheet	Z23-007
NSP	9	Dry Cell Battery (R03, AAA)	VEM-022
	10	• • • • •	
	11	• • • • •	
	12	• • • • •	
NSP	13	Warranty Card	ARY7010



3. SCHEMATIC AND PCB CONNECTION DIAGRAMS

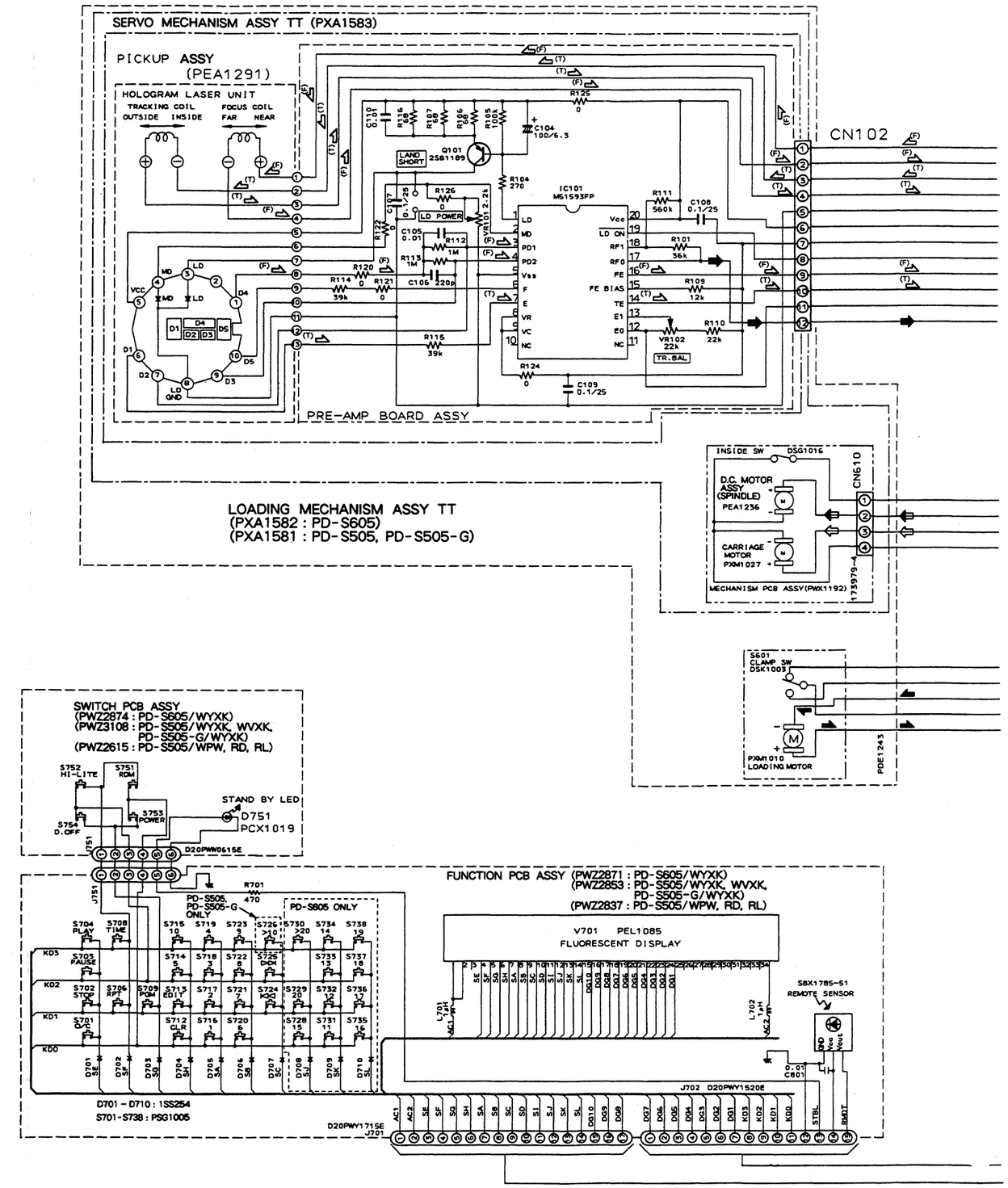
WAVEFORMS

Note : The encircled numbers denote measuring points in the schematic diagram.

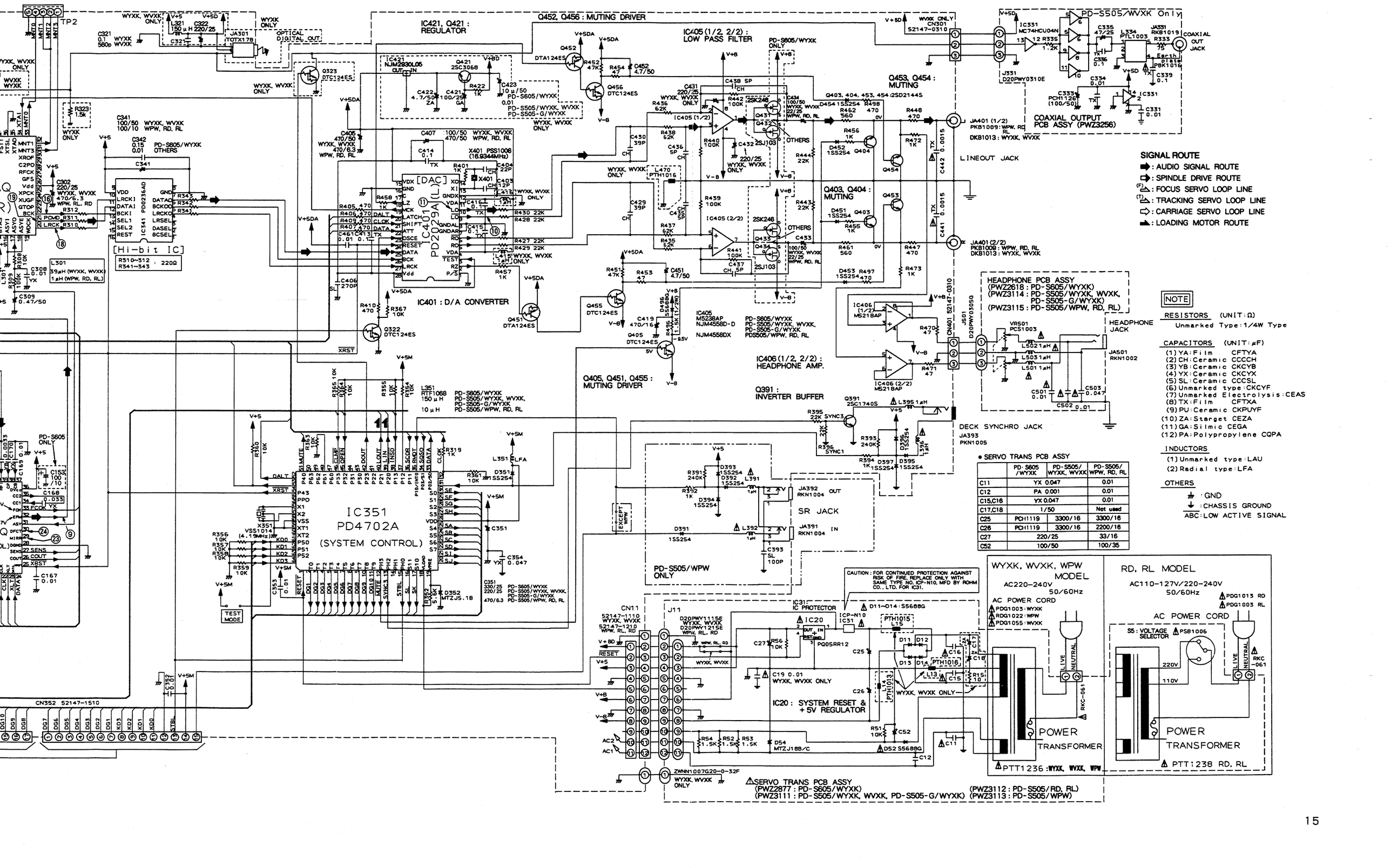
*1 50T-JUMP : After switching to the pause mode, press the manual search key.

*2 FOCUS-IN : Press the key without loading a disc.

② TP1- Pin 1 : PLAY MODE (RF) H : 500nsec/div 1.2Vp-p	⑤ IC202- Pin 3 : PLAY MODE (FODR) H : 1msec/div 0.5Vp-p	⑧ IC202- Pin 9 : TRACK SEARCH MODE (CADR) H : 500msec/div 5Vp-p	⑲ IC301- Pin 21 : PLAY MODE (1kHz) (DATA) H : 500µsec/div 5Vp-p
② TP1- Pin 1 : TRACK SEARCH MODE (RF) H : 200µsec/div 1.2Vp-p	⑥ IC202- Pin 4 : PLAY MODE (TRDR) H : 1msec/div 0.5Vp-p	⑨ IC151- Pin 32 : PLAY MODE (EFM) H : 500nsec/div 3Vp-p	㉓ TRACK SEARCH MODE Upper:TP1-Pin1(RF) Lower:IC151-Pin 29 (MIRR) H : 200µsec/div 1Vp-p 4.5Vp-p
③ TP1- Pin 6 : PLAY MODE (FOER) H : 10msec/div 0.2Vp-p	⑥ IC202- Pin 4 : 50T-JUMP(*1) MODE (TRDR) H : 1msec/div 1.5Vp-p	⑩ IC401- Pin 9 : PLAY MODE (1kHz) (LO)(D/A DATA OUT) H : 200µsec/div 5Vp-p	㉔ PLAY MODE Upper:TP1-Pin1(RF) Lower:IC151-Pin 30 (DFCT) H : 200µsec/div 1.5Vp-p 5Vp-p
④ TP1- Pin 2 : PLAY MODE (TRER) H : 10msec/div 1Vp-p	⑦ IC201- Pin 1 : PLAY MODE (SPDR) H : 50msec/div 1Vp-p	⑪ IC401- Pin 10 : PLAY MODE (1kHz) (LO)(D/A DATA OUT) H : 200µsec/div 5Vp-p	㉝ IC301- Pin 3 : PLAY MODE (MDP) H : 2µsec/div 3Vp-p
④ TP1- Pin 2 : 50T- JUMP(*1)MODE (TRER) H : 1msec/div 3.5Vp-p	⑦ IC201- Pin 1 : TRACK SEARCH MODE (SPDR) H : 50msec/div 6.2Vp-p	⑯ IC301- Pin 22 : PLAY MODE (1kHz) (BCLK) H : 500nsec/div 5Vp-p	㊸ IC301- Pin 9 : PLAY MODE (PCO) H : 10µsec/div 5Vp-p
⑤ IC202- Pin 3 : FOCUS-IN(*2) MODE (FODR) H : 200msec/div 1.8Vp-p	⑧ IC202- Pin 9 : PLAY MODE (CADR) H : 2sec/div 0.3Vp-p	⑱ IC301- Pin 20 : PLAY MODE (1kHz) (LRCK) H : 10µsec/div 5Vp-p	



CN201
RKP-533
TP1
TP2
⚠ MAIN PCB ASSY
(PWZ3249 : PD-S605/WYXK)
(PWZ3243 : PD-S505/WYXK)
PD-S505-G/WYXK)
(PWZ3244 : PD-S505/WVXK)
(PWZ3241 : PD-S505/RD, RL)
(PWZ3242 : PD-S505/WPW)
CN131
12PMZ-ABT
CN202
173981-4
CN204
173981-5
IC301
CXD2507AQ
(DECODER)
[Hi-bit IC]
IC151
CXA1372Q
(SERVO CONTROL)
IC351
PD4702A
(SYSTEM CONTROL)
IC401 : D/A CONVERTER
PD2029A(LL)
IC201 (1/2)
LA6517
IC202 (1/3)
LA6520
IC202 (2/3)
LA6520
IC202 (3/3)
LA6520
IC201 (2/2)
LA6517
IC421, Q421 :
REGULATOR
Q452, Q456 : MUTING DRIVER
IC405 (1/2, 2/2) :
LOW PASS FILTER
Q405, Q451, Q455 :
MUTING DRIVER
Q391 :
INVERTER
IC406 (1/2
HEADPHON
(FOCUS DRIVE)
(TRACKING DRIVE)
(CARRIAGE DRIVE)
(LOADING DRIVE)
(SPINDLE DRIVE)
VR151, VR152 : RCP1046
L301
39μH (WYXK, WVXK)
1.2μH (WPW, RD, RL)
R310~312 , R341~343 : 220Ω
X401 PSS1008
(16.9344MHz)
X351
(4.1943MHz)
L351 PTH1016
L470 PTH1016
L351 PLFA
OPTICAL
DIGITAL OUT
JA301
TOTX178
Q323
DTC124ES
Q322
DTC124ES
Q451
DTA124ES
Q455
DTC124ES
Q456
DTC124ES
Q405
DTC124ES
IC405
M5238AP
NJM4558D-D
NJM4558DX
IC423
NJM2930L05
PD-S605 ONLY
PD-S505/WYXK, WVXK
PD-S505-G/WYXK
PD-S505/WPW, RD, RL
PD-S505/WPW
ONLY
EXCEPT WPW
WYXK, WVXK ONLY
WPW, RD, RL
TEST MODE
J702 : D20PWY1520E
J701 : D20PWY1715E
CN352 52147-1510
CN351
52147-1710
CN11
52147-1110
WYXK, WVXK
52147-1210
WPW, RL, RD
J11
D20PWY1115E
WYXK, WVXK
D20PWY1215E
WPW, RL, RD
ZWNN1007G20-0-32F
⚠SERVO TR
(PWZ2877
(PWZ3111


IC421, Q421 : REGULATOR
Q452, Q456 : MUTING DRIVER
IC405 (1/2, 2/2) : LOW PASS FILTER
PD-S505/WVXK Only
Q453, Q454 : MUTING
Q403, Q404 : MUTING
IC401 : D/A CONVERTER
IC401 PD2029A (L) [DAC]
IC351 PD4702A (SYSTEM CONTROL)
[Hi-bit IC]
IC406 (1/2, 2/2) : HEADPHONE AMP.
Q405, Q451, Q455 : MUTING DRIVER
Q391 : INVERTER BUFFER
COAXIAL OUTPUT PCB ASSY (PWZ3256)
HEADPHONE PCB ASSY (PWZ2618 : PD-S605/WYXK) (PWZ3114 : PD-S505/WYXK, WVXK, PD-S505-G/WYXK) (PWZ3115 : PD-S505/WPW, RD, RL)
HEADPHONE JACK
DECK SYNCHRO JACK
SR JACK
LINEOUT JACK
SIGNAL ROUTE
: AUDIO SIGNAL ROUTE
: SPINDLE DRIVE ROUTE
: FOCUS SERVO LOOP LINE
: TRACKING SERVO LOOP LINE
: CARRIAGE SERVO LOOP LINE
: LOADING MOTOR ROUTE
NOTE
RESISTORS (UNIT:Ω)
Unmarked Type:1/4W Type
CAPACITORS (UNIT:μF)
(1) YA:Film CFTYA
(2) CH:Ceramic CCCCH
(3) YB:Ceramic CKCYB
(4) YX:Ceramic CKCYX
(5) SL:Ceramic CCCSL
(6) Unmarked type:CKCYF
(7) Unmarked Electrolysis:CEAS
(8) TX:Film CFTXA
(9) PU:Ceramic CKPUYF
(10) ZA:Starget CEZA
(11) GA:Silmic CEGA
(12) PA:Polypropylene CQPA
INDUCTORS
(1) Unmarked type:LAU
(2) Radial type:LFA
OTHERS
: GND
: CHASSIS GROUND
ABC : LOW ACTIVE SIGNAL
• SERVO TRANS PCB ASSY
PD-S605/WYXK
PD-S505/WYXK, WVXK
PD-S505/WPW, RD, RL
C11 YX 0.047 0.01
C12 PA 0.001 0.01
C15,C16 YX 0.047 0.01
C17,C18 1/50 Not used
C25 PCH1119 3300/16 3300/16
C26 PCH1119 3300/16 2200/16
C27 220/25 33/16
C52 100/50 100/35
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE NO. ICP-N10, MFD BY ROHM CO., LTD. FOR IC31.
IC20 : SYSTEM RESET & +5V REGULATOR
WYXK, WVXK, WPW MODEL AC220-240V 50/60Hz
RD, RL MODEL AC110-127V/220-240V 50/60Hz
AC POWER CORD
POWER TRANSFORMER
PTT1236 :WYXK, WVXK, WPW
PTT:238 RD, RL
SERVO TRANS PCB ASSY (PWZ2877 : PD-S605/WYXK) (PWZ3111 : PD-S505/WYXK, WVXK, PD-S505-G/WYXK) (PWZ3112 : PD-S505/RD, RL) (PWZ3113 : PD-S505/WPW)

PD-S605, PD-S505, PD-S505-G

NOTE FOR SCHEMATIC DIAGRAM (Type 4A)

1. **When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".**

2. **Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.**

3. **RESISTORS:**
   Unit: k:kΩ, M:MΩ, or Ω unless otherwise noted.
   Rated power: 1/4W, 1/6W, 1/8W, 1/10W unless otherwise noted.
   Tolerance:(F):±1%, (G):±2%, (K):±10%, (M):±20% or ±5% unless otherwise noted.

4. **CAPACITORS:**
   Unit : p:pF or μF unless otherwise noted.
   Ratings : capacitor (μF) /voltage (V) unless otherwise noted.
   Rated voltage : 50V except for electrolytic capacitors.

5. **COILS:**
   Unit : m:mH or μH unless otherwise noted.

6. **VOLTAGE AND CURRENT:**
   ▭ or ←V :
   DC voltage (V) in PLAY mode unless otherwise noted.
   ⇦mA or ←mA :
   DC current in PLAY mode unless otherwise noted.
   Value in ( ) is DC current in STOP mode.

7. **OTHERS:**
   - ● ⊘ or ⊘ : Adjusting point.
   - ● ◀ : Measurement point.
   - ● The ⚠ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.

8. **SCH – □ ON THE SCHEMATIC DIAGRAM:**
   - ● SCH– □ indicates the drawing number of the schematic diagram. (SCH stands for schematic diagram.)

9. **SWITCHES** (Underline indicates switch position):

OUT OF PCB ASSY
S601 : CLAMP

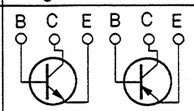
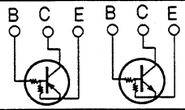
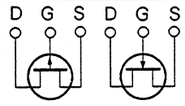
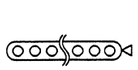
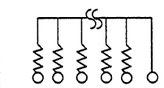
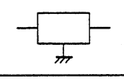
FUNCTION PCB ASSY
S701 : ▲ OPEN/CLOSE
S702 : ■
S703 : ❚❚
S704 : ▶
S706 : REPEAT
S708 : TIME
S709 : PGM
S712 : CLEAR
S713 : EDIT
S714 : 5
S715 : 10
S716 : 1
S717 : 2
S718 : 3
S719 : 4
S720 : 6
S721 : 7
S722 : 8
S723 : 9
S724 : ⏮ ◀◀
S725 : ▶▶ ⏭
S726 : > 10 (PD-S505, PD-S505-G Only)
S728 : 15 (PD-S605 Only)
S729 : 20 (PD-S605 Only)
S730 : > 20 (PD-S605 Only)
S731 : 11 (PD-S605 Only)
S732 : 12 (PD-S605 Only)
S733 : 13 (PD-S605 Only)
S734 : 14 (PD-S605 Only)
S735 : 16 (PD-S605 Only)
S736 : 17 (PD-S605 Only)
S737 : 18 (PD-S605 Only)
S738 : 19 (PD-S605 Only)

MECHANISM PCB ASSY
S610 : INSIDE

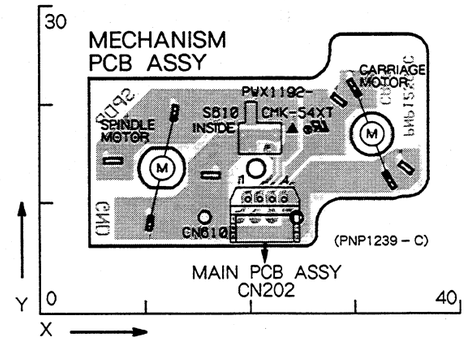
SWITCH PCB ASSY
S751 : RANDOM
S752 : HI-LITE SCAN
S753 : POWER STANDBY/ON
S754 : DISPLAY OFF

NOTE FOR PCB DIAGRAMS:

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

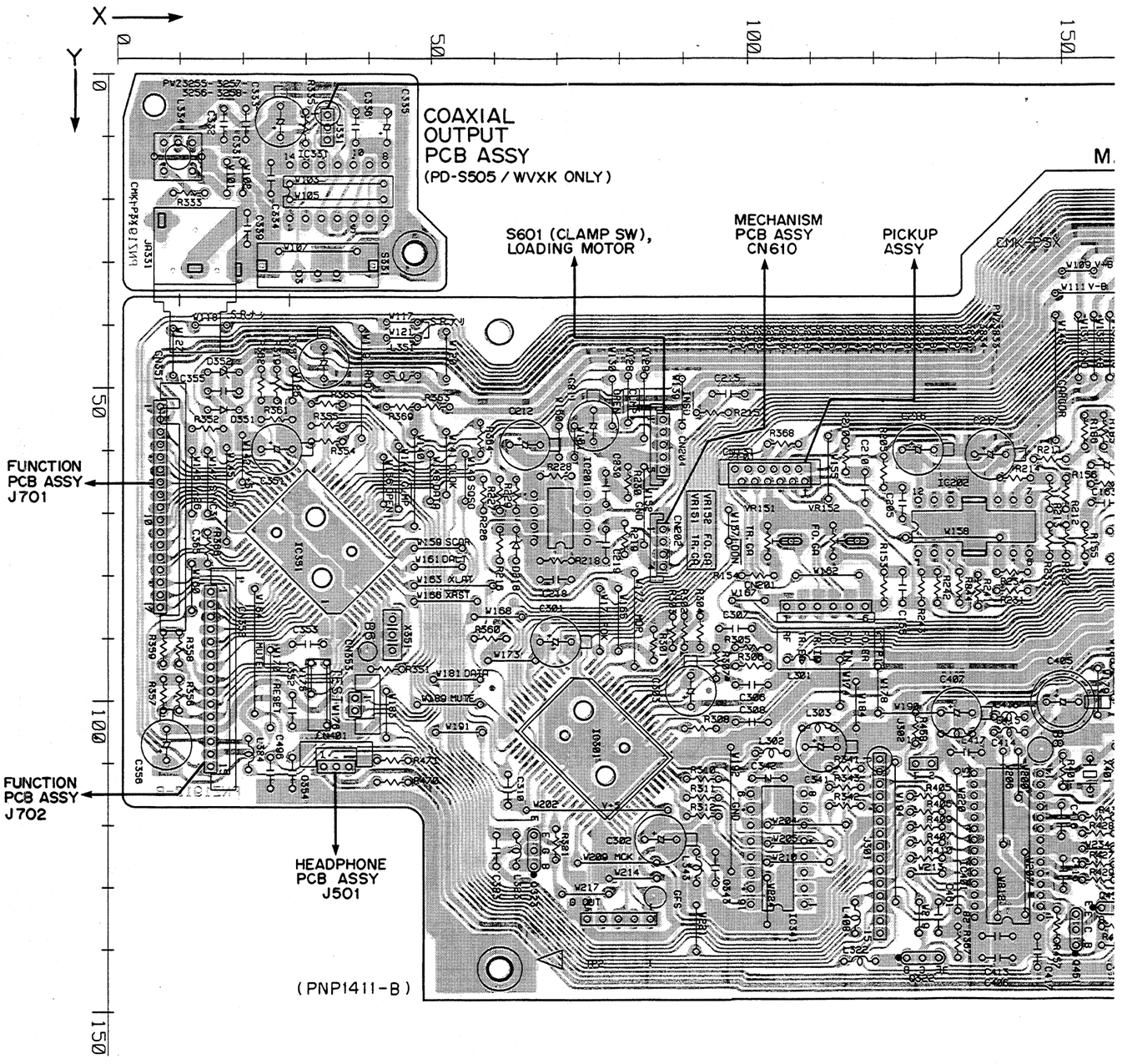
Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

● PCB DIAGRAM OF MECHANISM PCB ASSY



● This diagram is viewed from the mounted parts side.

● PCB DIAGRAM OF MOTHER PCB ASSY

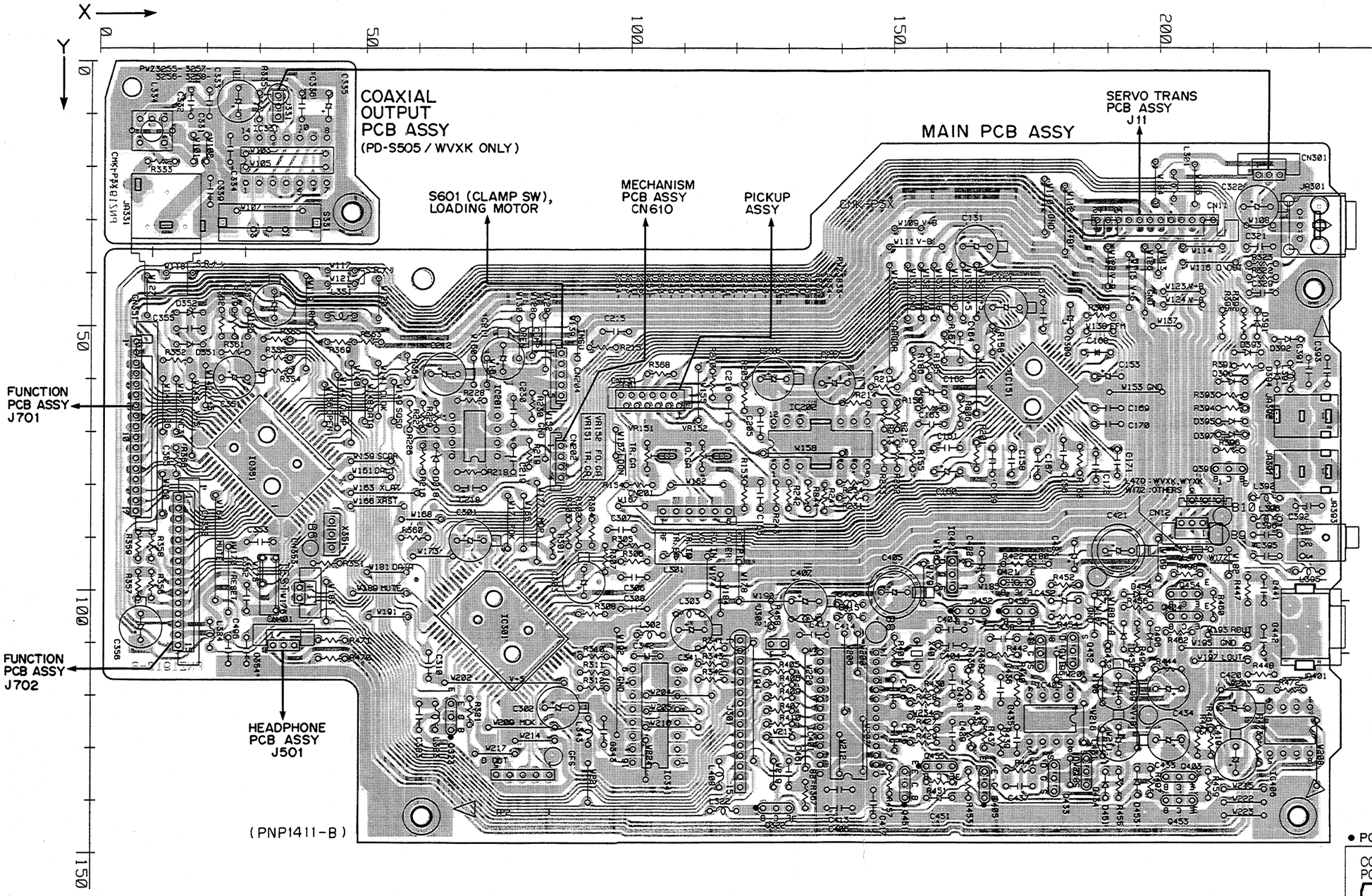


● This diagram is viewed from the mounted parts side.

● The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.

● "Side" is ind
● "X" and "Y"
● When referr

• PCB DIAGRAM OF MOTHER PCB ASSY



COAXIAL OUTPUT PCB ASSY

No.	X	Y	Part No.
SEMICONDUCTOR			
IC331	35	19	MC74HCU04N

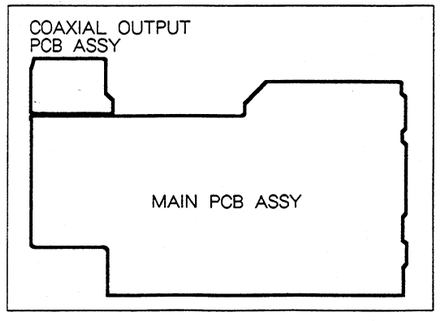
MAIN PCB ASSY

No.	X	Y	Part No.
SEMICONDUCTORS			
IC151	176	61	CXA1372Q
IC201	74	74	LA6517
IC202	127	76	LA6520
IC301	74	107	CXD2507AQ
IC341	108	132	PD0236AD
IC351	31	75	PD4702A
IC401	146	135	PD2029A(L)
IC405	183	120	M5238AP
IC406	228	122	M5218AP
IC421	161	94	NJM2930L05
Q322	130	141	DTC124ES
Q323	65	121	DTC124ES
Q391	125	77	2SC1740S
Q403	206	135	2SD2144S
Q404	207	105	2SD2144S
Q405	167	134	DTC124ES
Q421	175	98	2SC3068
Q431	177	109	2SK246
Q432	183	109	2SJ103
Q433	180	133	2SK246
Q434	186	132	2SJ103
Q451	152	134	DTA124ES
Q452	167	104	DTA124ES
Q453	140	206	2SD2144S
Q454	207	100	2SD2144S
Q455	161	133	DTC124ES
Q456	176	104	DTC124ES
D351	18	53	1SS254
D352	18	48	MTZJ5.1B
D395	216	68	1SS254
D396	216	60	1SS254
D397	216	70	1SS254
D451	189	134	1SS254
D452	193	106	1SS254
D453	195	134	1SS254
D454	198	100	1SS254
D496	198	111	S5688G

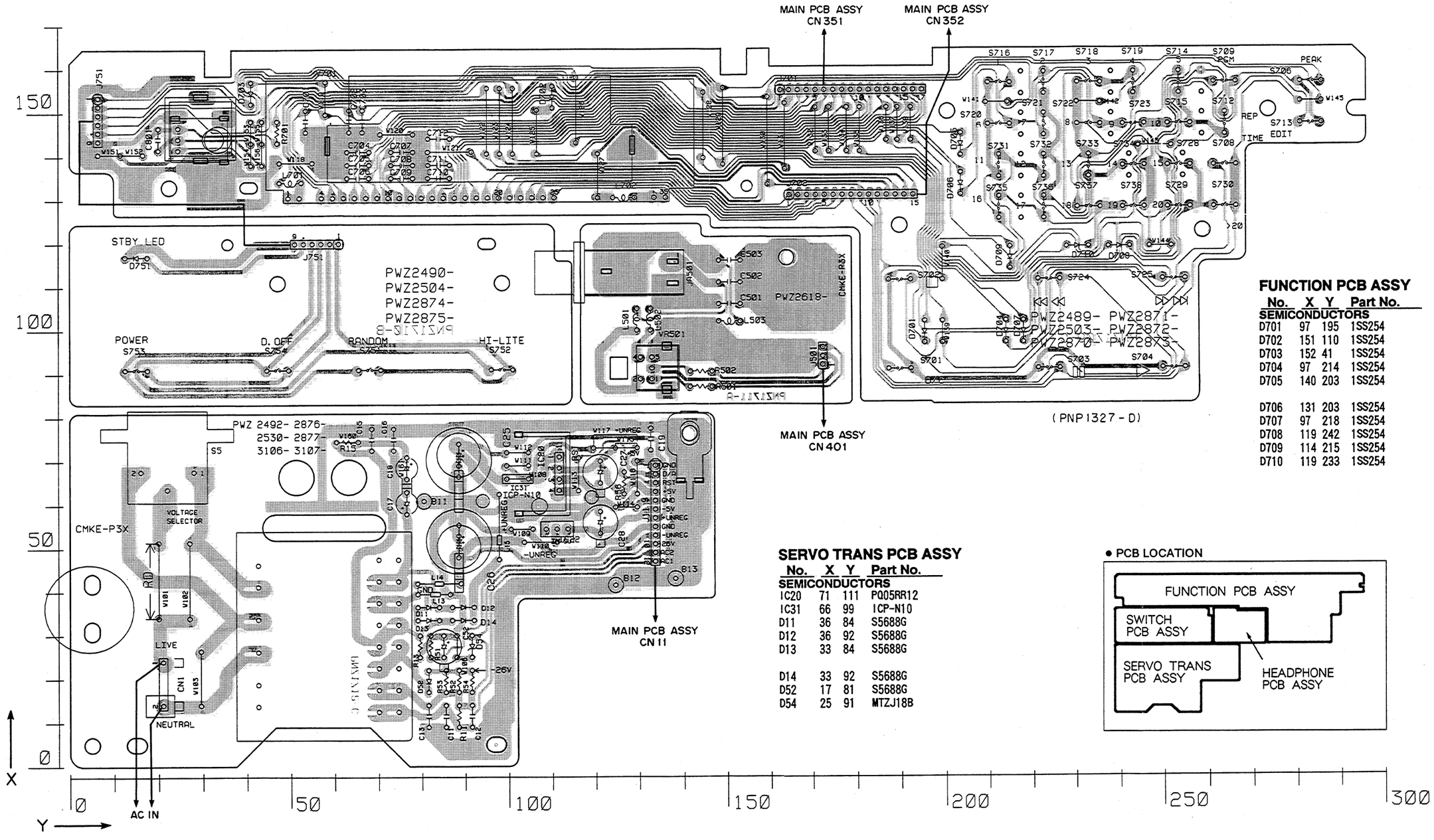
- This diagram is viewed from the mounted parts side.
- The parts mounted on this PCB include all necessary parts for several destinations.
  For further information for respective destinations, be sure to check with the schematic diagram.

- "Side" is indicated the mounted parts side of the PCB diagram.
- "X" and "Y" are indicated the mounted parts coordinate of the PCB diagram.
- When referring to the parts position, be sure to check with the PCB PARTS LIST.

• PCB LOCATION



• PCB DIAGRAM OF SUB PCB ASSY FOR PD-S605



FUNCTION PCB ASSY

No.	X	Y	Part No.
SEMICONDUCTORS			
D701	97	195	1SS254
D702	151	110	1SS254
D703	152	41	1SS254
D704	97	214	1SS254
D705	140	203	1SS254
D706	131	203	1SS254
D707	97	218	1SS254
D708	119	242	1SS254
D709	114	215	1SS254
D710	119	233	1SS254

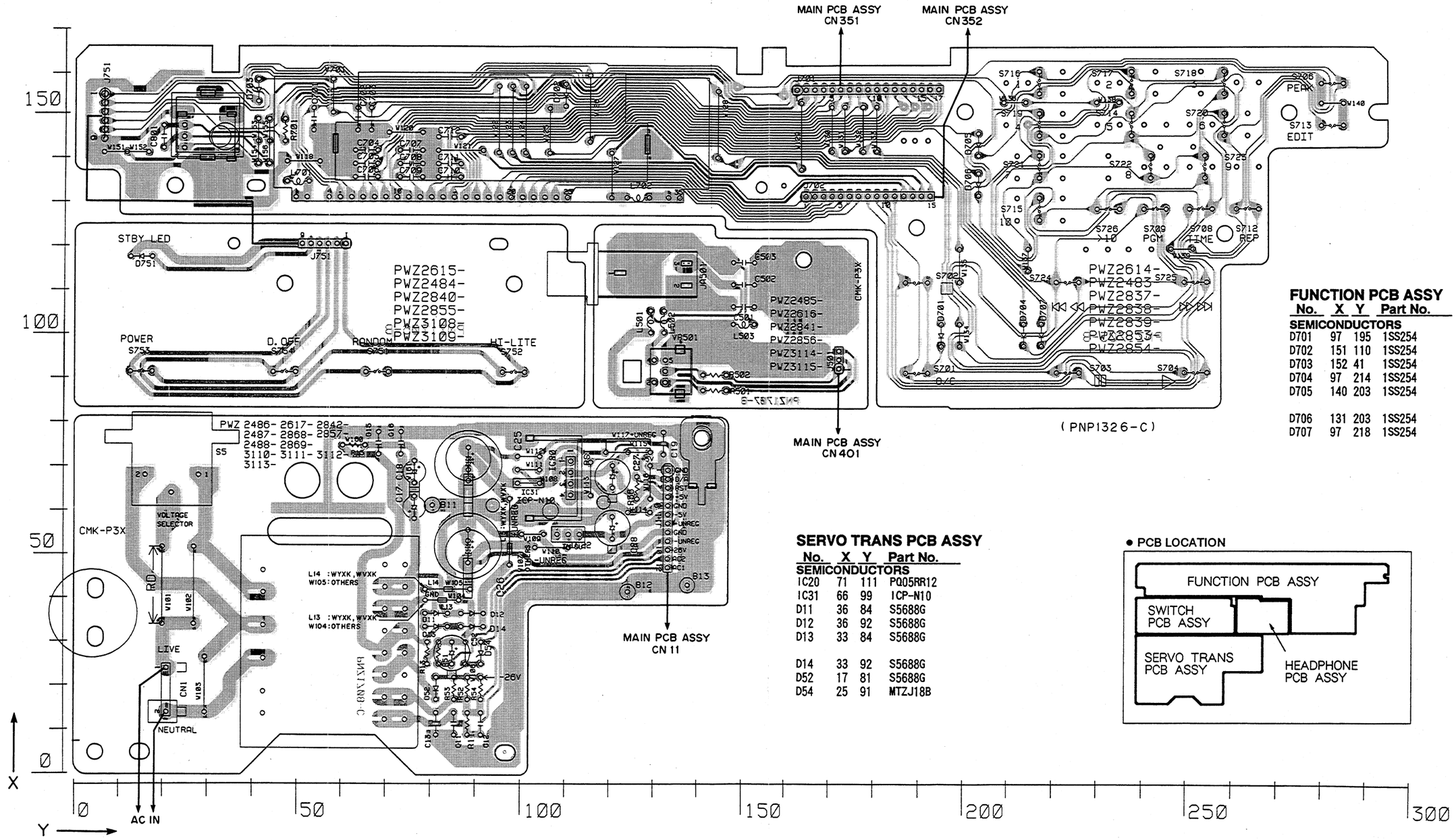
SERVO TRANS PCB ASSY

No.	X	Y	Part No.
SEMICONDUCTORS			
IC20	71	111	PQ05RR12
IC31	66	99	ICP-N10
D11	36	84	S5688G
D12	36	92	S5688G
D13	33	84	S5688G
D14	33	92	S5688G
D52	17	81	S5688G
D54	25	91	MTZJ18B

• PCB LOCATION

- This diagram is viewed from the mounted parts side.
- The parts mounted on this PCB include all necessary parts for several destinations. For further information for respective destinations, be sure to check with the schematic diagram.
- "Side" is indicated the mounted parts side of the PCB diagram.
- "X" and "Y" are indicated the mounted parts coordinate of the PCB diagram.
- When referring to the parts position, be sure to check with the PCB PARTS LIST.

• PCB DIAGRAM OF SUB PCB ASSY FOR PD-S505 AND PD-S505-G



FUNCTION PCB ASSY

No.	X	Y	Part No.
SEMICONDUCTORS			
D701	97	195	1SS254
D702	151	110	1SS254
D703	152	41	1SS254
D704	97	214	1SS254
D705	140	203	1SS254
D706	131	203	1SS254
D707	97	218	1SS254

SERVO TRANS PCB ASSY

No.	X	Y	Part No.
SEMICONDUCTORS			
IC20	71	111	PQ05RR12
IC31	66	99	ICP-N10
D11	36	84	S5688G
D12	36	92	S5688G
D13	33	84	S5688G
D14	33	92	S5688G
D52	17	81	S5688G
D54	25	91	MTZJ18B

• PCB LOCATION

- This diagram is viewed from the mounted parts side.
- The parts mounted on this PCB include all necessary parts for several destinations.
  For further information for respective destinations, be sure to check with the schematic diagram.

- "Side" is indicated the mounted parts side of the PCB diagram.
- "X" and "Y" are indicated the mounted parts coordinate of the PCB diagram.
- When referring to the parts position, be sure to check with the PCB PARTS LIST.

4. PCB PARTS LIST

NOTES:

- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits(any digit apart from 0), such as 560 ohm and 47k ohm(tolerance is shown by J=5%, and K=10%).

560 Ω → 56 × 10¹ → 561 ····· RD1/4PU 5 6 1 J
47k Ω → 47 × 10³ → 473 ····· RD1/4PU 4 7 3 J
0.5 Ω → 0R5 ····· RN2H 0 R 5 K
1 Ω → 1R0 ····· RS1P 1 R 0 K

Ex.2 When there are 3 effective digits(such as in high precision metal film resistors).

5.62k Ω → 562 × 10¹ → 5621 ····· RN1/4PC 5 6 2 1 F

- *"Side" is indicated the mounted parts side of the PCB diagram.*
- *"X" and "Y" are indicated the mounted parts coordinate of the PCB diagram.*
- *When referring to the parts position, be sure to check with the PCB diagram.*

■ LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol & Description	Part No.							Remarks
		PD-S605 /WYXK	PD-S505					PD-S505-G / WYXK	
			WYXK	WVXK	WPW	RD	RL		
NSP	MOTHER PCB ASSY	PWM2046	PWM2040	PWM2041	PWM2039	PWM2038	PWM2038	PWM2040	
⚠	├ MAIN PCB ASSY	PWZ3249	PWZ3243	PWZ3244	PWZ3242	PWZ3241	PWZ3241	PWZ3243	
NSP	├ COAXIAL OUTPUT PCB ASSY	Not used	Not used	PWZ3256	Not used	Not used	Not used	Not used	
	└ PC Board MOTHER	PNP1411	PNP1411	PNP1411	PNP1411	PNP1411	PNP1411	PNP1411	
NSP									
NSP	SUB PCB ASSY	PWX1382	PWX1375	PWX1375	PWX1425	PWX1424	PWX1424	PWX1375	
NSP	├ FUNCTION PCB ASSY	PWZ2871	PWZ2853	PWZ2853	PWZ2837	PWZ2837	PWZ2837	PWZ2853	
NSP	├ SWITCH PCB ASSY	PWZ2874	PWZ3108	PWZ3108	PWZ2615	PWZ2615	PWZ2615	PWZ3108	
NSP	├ HEADPHONE PCB ASSY	PWZ2618	PWZ3114	PWZ3114	PWZ3115	PWZ3115	PWZ3115	PWZ3114	*
NSP	├ SERVO TRANS PCB ASSY	PWZ2877	PWZ3111	PWZ3111	PWZ3113	PWZ3112	PWZ3112	PWZ3111	
	└ PC Board SUB	PNP1327	PNP1326	PNP1326	PNP1326	PNP1326	PNP1326	PNP1326	
NSP	LOADING MECHANISM ASSY TT	PXA1582	PXA1581	PXA1581	PXA1581	PXA1581	PXA1581	PXA1581	
	└ MECHANISM PCB ASSY	PWX1192	PWX1192	PWX1192	PWX1192	PWX1192	PWX1192	PWX1192	

Note * : Although PWZ2618, PWZ3114 and PWZ3115 are different in part number, they consist of the same component.

■ CONTRAST OF PCB ASSEMBLIES

MAIN PCB ASSY

PWZ3249, PWZ3243, PWZ3244, PWZ3242 and PWZ3241 have the same construction except for the following :

Mark	No. & Description	Side	X	Y	Part No.					Remarks
					PWZ3249	PWZ3243	PWZ3244	PWZ3242	PWZ3241	
	IC405	A	183	120	M5238AP	NJM4558D-D	NJM4558D-D	NJM4558DX	NJM4558DX	
	IC421	A	161	94	NJM2930L05	NJM2930L05	NJM2930L05	Not used	Not used	
	Q323	A	65	121	DTC124ES	DTC124ES	DTC124ES	Not used	Not used	
	Q421	A	175	98	2SC3068	2SC3068	2SC3068	Not used	Not used	
	Q431	A	177	109	2SK246	Not used	Not used	Not used	Not used	
	Q432	A	183	109	2SJ103	Not used	Not used	Not used	Not used	
	Q433	A	180	133	2SK246	Not used	Not used	Not used	Not used	
	Q434	A	186	132	2SJ103	Not used	Not used	Not used	Not used	
	D391	A	218	47	Not used	Not used	Not used	1SS254	Not used	
	D392	A	226	52	Not used	Not used	Not used	1SS254	Not used	
	D393	A	219	55	Not used	Not used	Not used	1SS254	Not used	
	D394	A	222	57	Not used	Not used	Not used	1SS254	Not used	
	L301	A	106	93	LAU390J	LAU390J	LAU390J	LAU010J	LAU010J	
	L321	A	202	21	LFA151J	LFA151J	LFA151J	Not used	Not used	
	L351	A	47	48	RTF1068	LFA151J	LFA151J	LFA100J	LFA100J	
⚠	L391	A	224	57	Not used	Not used	Not used	LAU010J	Not used	
⚠	L392	A	217	82	Not used	Not used	Not used	LAU010J	Not used	
	L415	A	139	105	LAU010J	LAU010J	LAU010J	Not used	Not used	
	L416	A	139	102	LAU010J	LAU010J	LAU010J	Not used	Not used	
	L470	A	207	95	PTH1016	PTH1016	PTH1016	Not used	Not used	
	C151(220 μ F/25V)	A	160	45	PCH1128	Not used	Not used	Not used	Not used	
	C153	A	187	59	CEAS101M10	Not used	Not used	Not used	Not used	
	C158	A	172	78	CFTXA104J50	CFTXA104J50	CFTXA104J50	CGCYX104K50	CGCYX104K50	
	C160(4.7 μ F/50V)	A	157	77	PCH1127	PCH1127	PCH1127	CEAS4R7M50	CEAS4R7M50	
	C162(4.7 μ F/50V)	A	154	62	PCH1127	PCH1127	PCH1127	CEAS4R7M50	CEAS4R7M50	
	C211(220 μ F/25V)	A	75	58	PCH1128	PCH1128	PCH1128	Not used	Not used	
	C212(220 μ F/25V)	A	61	59	PCH1128	PCH1128	PCH1128	Not used	Not used	
	C216(220 μ F/25V)	A	124	60	PCH1128	PCH1128	PCH1128	CEAS330M16	CEAS330M16	
	C217(220 μ F/25V)	A	136	60	PCH1128	PCH1128	PCH1128	CEAS330M16	CEAS330M16	
	C218	A	71	80	CFTXA272J50	CKCYB272K50	CKCYB272K50	CKCYB272K50	CKCYB272K50	
	C301	A	66	90	CEZA470M50	CEZA470M50	CEZA470M50	CGCYX104K25	CGCYX104K25	
	C302(220 μ F/25V)	A	83	122	PCH1128	PCH1128	PCH1128	CEAS471M6R3	CEAS471M6R3	
	C303	A	91	101	CEZA101M25	CEZA101M25	CEZA101M25	Not used	Not used	
	C321	A	216	35	CFTXA104J50	CFTXA104J50	CKCYB561K50	Not used	Not used	
	C322(220 μ F/25V)	A	215	27	PCH1128	PCH1128	PCH1128	Not used	Not used	
	C341(100 μ F/50V)	A	109	107	PCH1126	PCH1126	PCH1126	CEAS101M10	CEAS101M10	
	C342	A	100	112	CQMA154J50	CKCYF103Z50	CKCYF103Z50	CKCYF103Z50	CKCYF103Z50	
	C351	A	22	59	CEZA331M25	PCH1128	PCH1128	CEAS471M6R3	CEAS471M6R3	
	C393	A	231	61	Not used	Not used	Not used	CCCSL101J50	Not used	
	C405(470 μ F/50V)	A	147	100	PCH1129	PCH1129	PCH1129	CEAS471M6R3	CEAS471M6R3	
	C407(100 μ F/50V)	A	130	102	PCH1126	PCH1126	PCH1126	CFTXA471J50	CFTXA471J50	
	C421	A	189	92	CEGA101M25	CEGA101M25	CEGA101M25	Not used	Not used	
	C422	A	166	98	CEZA4R7M50	CEZA4R7M50	CEZA4R7M50	Not used	Not used	
	C423	A	183	96	CEZA100M50	CKCYF103Z50	CKCYF103Z50	Not used	Not used	
	C431(220 μ F/25V)	A	192	131	PCH1128	PCH1128	PCH1128	Not used	Not used	
	C432(220 μ F/25V)	A	192	121	PCH1128	PCH1128	PCH1128	Not used	Not used	
	C433(100 μ F/50V)	A	204	128	PCH1126	PCH1126	PCH1126	CEAS220M25	CEAS220M25	
	C434(100 μ F/50V)	A	204	118	PCH1126	PCH1126	PCH1126	CEAS220M25	CEAS220M25	
	C451(4.7 μ F/50V)	A	156	139	PCH1127	PCH1127	PCH1127	CEAS4R7M50	CEAS4R7M50	
	C452(4.7 μ F/50V)	A	179	102	PCH1127	PCH1127	PCH1127	CEAS4R7M50	CEAS4R7M50	
	R321	A	69	120	RD1/6PM102J	RD1/6PM102J	RD1/4PU471J	Not used	Not used	
	R323	A	216	38	RD1/4PU152J	RD1/4PU152J	Not used	Not used	Not used	
	R391	A	214	57	Not used	Not used	Not used	RD1/6PM244J	Not used	
	R392	A	215	47	Not used	Not used	Not used	RD1/6PM102J	Not used	
	R422	A	170	95	RD1/6PM102J	RD1/6PM102J	RD1/6PM102J	Not used	Not used	
	CN11	A	210	30	52147-1110	52147-1110	52147-1110	52147-1210	52147-1210	
	CN301	A	218	21	Not used	Not used	52147-0310	Not used	Not used	
	JA301	A	234	31	TOTX178	TOTX178	Not used	Not used	Not used	
	JA391	A	233	77	Not used	Not used	Not used	RKN1004	Not used	
	JA392	A	233	67	Not used	Not used	Not used	RKN1004	Not used	
	JA401	A	234	107	DKB1013	DKB1013	DKB1013	PKB1009	PKB1009	

FUNCTION PCB ASSY

PWZ2871, PWZ2853 and PWZ2837 have the same construction except for the following :

Mark	No. & Description	Side	X	Y	Part No.			Remarks
					PWZ2871	PWZ2853	PWZ2837	
	D708	A	119	242	1SS254	Not used	Not used	
	D709	A	114	215	1SS254	Not used	Not used	
	D710	A	119	233	1SS254	Not used	Not used	
	L701	A	134	52	LAU010J	LAU010J	LAU010K	
	L702	A	130	129	LAU010J	LAU010J	LAU010K	
	S701	A	91	192	PSG1005	PSG1005	PSG1006	
	S702	A	111	192	PSG1005	PSG1005	PSG1006	
	S703	A	91	226	PSG1005	PSG1005	PSG1006	
	S704	A	91	255	PSG1005	PSG1005	PSG1006	
	S706	A	156	281	PSG1005	PSG1005	PSG1006	
	S708	A	137	261	PSG1005	PSG1005	PSG1006	
	S709	A	156	266	PSG1005	PSG1005	PSG1006	
	S712	A	144	264	PSG1005	PSG1005	PSG1006	
	S713	A	147	286	PSG1005	PSG1005	PSG1006	
	S714	A	159	253	PSG1005	PSG1005	PSG1006	
	S715	A	147	251	PSG1005	PSG1005	PSG1006	
	S716	A	156	210	PSG1005	PSG1005	PSG1006	
	S717	A	154	222	PSG1005	PSG1005	PSG1006	
	S718	A	156	230	PSG1005	PSG1005	PSG1006	
	S719	A	159	243	PSG1005	PSG1005	PSG1006	
	S720	A	147	210	PSG1005	PSG1005	PSG1006	
	S721	A	149	222	PSG1005	PSG1005	PSG1006	
	S722	A	147	230	PSG1005	PSG1005	PSG1006	
	S723	A	147	245	PSG1005	PSG1005	PSG1006	
	S724	A	111	255	PSG1005	PSG1005	PSG1006	
	S725	A	111	255	PSG1005	PSG1005	PSG1006	
	S726	A	156	230	Not used	PSG1005	PSG1006	
	S728	A	137	251	PSG1005	Not used	Not used	
	S729	A	128	251	PSG1005	Not used	Not used	
	S730	A	128	261	PSG1005	Not used	Not used	
	S731	A	135	212	PSG1005	Not used	Not used	
	S732	A	140	222	PSG1005	Not used	Not used	
	S733	A	140	233	PSG1005	Not used	Not used	
	S734	A	137	240	PSG1005	Not used	Not used	
	S735	A	125	212	PSG1005	Not used	Not used	
	S736	A	130	222	PSG1005	Not used	Not used	
	S737	A	128	230	PSG1005	Not used	Not used	
	S738	A	128	240	PSG1005	Not used	Not used	

SWITCH PCB ASSY

PWZ2874, PWZ3108 and PWZ2615 have the same construction except for the following :

Mark	No. & Description	Side	X	Y	Part No.			Remarks
					PWZ2874	PWZ3108	PWZ2615	
	S751	A	91	65	PSG1005	PSG1005	PSG1006	
	S752	A	91	98	PSG1005	PSG1005	PSG1006	
	S753	A	91	12	PSG1005	PSG1005	PSG1006	
	S754	A	91	44	PSG1005	PSG1005	PSG1006	

SERVO TRANS PCB ASSY

PWZ2877, PWZ3111, PWZ3113 and PWZ3112 have the same construction except for the following :

Mark	No. & Description	Side	X	Y	Part No.				Remarks
					PWZ2877	PWZ3111	PWZ3113	PWZ3112	
⚠	C11	A	14	85	CGCYX473K25	CGCYX473K25	CKCYF103Z50	CKCYF103Z50	
	C12	A	9	91	CQPA102J100	CQPA102J100	CKCYF103Z50	CKCYF103Z50	
⚠	C15	A	72	68	CGCYX473K25	CGCYX473K25	CKCYF103Z50	CKCYF103Z50	
⚠	C16	A	77	73	CGCYX473K25	CGCYX473K25	CKCYF103Z50	CKCYF103Z50	
	C17	A	60	78	CEZA010M50	CEZA010M50	Not used	Not used	
	C18	A	68	78	CEZA010M50	CEZA010M50	Not used	Not used	
	C25	A	74	88	PCH1119	PCH1120	CEAS332M16	CEAS332M16	
	C26	A	55	88	PCH1119	PCH1120	CEAS222M16	CEAS222M16	
	C27	A	70	121	PCH1128	PCH1128	CEAS330M16	CEAS330M16	
	C52	A	30	85	PCH1126	PCH1126	CEAS101M35	CEAS101M35	
	L13	A	40	82	PTH1016	PTH1016	Not used	Not used	
	L14	A	42	82	PTH1013	PTH1013	Not used	Not used	
	L15	A	55	97	PTH1015	PTH1015	Not used	Not used	
	R15	A	74	60	RD1/6PM100J	RD1/6PM100J	Not used	Not used	
⚠	S5 VOLTAGE SELECTOR	A	70	23	Not used	Not used	Not used	PSB1008	

■ PARTS LIST FOR PD-S605/WYXK

MOTHER PCB ASSY

OTHERS

Mark	No.	Side	X	Y	Description	Part No.
					PC BOARD MOTHER PCB	PNP1411

MAIN PCB ASSY

SEMICONDUCTORS

Mark	No.	Side	X	Y	Description	Part No.
	IC151	A	176	61	SERVO IC	CXA1372Q
⚠	IC201	A	74	74	POWER OP-AMP IC	LA6517
⚠	IC202	A	127	76	POWER OP-AMP IC	LA6520
	IC301	A	74	107	EFM DEMODULATION IC	CXD2507AQ
	IC341	A	108	132	BIT EXPAND IC	PD0236AD
	IC351	A	31	75	MICROCOMPUTER IC	PD4702A
	IC401	A	146	135	D/A CONVERTER IC	PD2029A(L)
	IC405	A	183	120	DUAL OP AMP IC	M5238AP
	IC406	A	228	122	OP-AMP, IC	M5218AP
	IC421	A	161	94	REGULATOR, IC	NJM2930L05
	Q322	A	130	141	TRANSISTOR	DTC124ES
	Q323	A	65	121	TRANSISTOR	DTC124ES
	Q391	A	125	77	TRANSISTOR	2SC1740S
	Q403	A	206	135	TRANSISTOR	2SD2144S
	Q404	A	207	105	TRANSISTOR	2SD2144S
	Q405	A	167	134	TRANSISTOR	DTC124ES
	Q421	A	175	98	TRANSISTOR	2SC3068
	Q431	A	177	109	N-FET	2SK246
	Q432	A	183	109	P-FET	2SJ103
	Q433	A	180	133	N-FET	2SK246
	Q434	A	186	132	P-FET	2SJ103
	Q451	A	152	134	TRANSISTOR	DTA124ES
	Q452	A	167	104	TRANSISTOR	DTA124ES
	Q453	A	140	206	TRANSISTOR	2SD2144S
	Q454	A	207	100	TRANSISTOR	2SD2144S
	Q455	A	161	133	TRANSISTOR	DTC124ES
	Q456	A	176	104	TRANSISTOR	DTC124ES
	D218	A	62	72	ZENER DIODE	MTZJ6.8B
	D351	A	18	53	DIODE	1SS254
	D352	A	18	48	ZENER DIODE	MTZJ5.1B
	D395	A	216	68	DIODE	1SS254
	D396	A	216	60	DIODE	1SS254
	D397	A	216	70	DIODE	1SS254
	D451	A	189	134	DIODE	1SS254
	D452	A	193	106	DIODE	1SS254
	D453	A	195	134	DIODE	1SS254
	D454	A	198	100	DIODE	1SS254
	D496	A	198	111	DIODE	S5688G

COILS

Mark	No.	Side	X	Y	Description	Part No.
	L301	A	106	93	AXIAL INDUCTOR	LAU390J
	L321	A	202	21	RADIAL INDUCTOR	LFA151J
	L351	A	47	48	COIL(0.15mH)	RTF1068
⚠	L395	A	225	96	AXIAL INDUCTOR	LAU010J
⚠	L396	A	217	86	AXIAL INDUCTOR	LAU010J
	L415	A	139	105	AXIAL INDUCTOR	LAU010J
	L416	A	139	102	AXIAL INDUCTOR	LAU010J
	L470	A	207	95	FERRITE BEADS	PTH1016

CAPACITORS

Mark	No.	Side	X	Y	Description	Part No.
	C151	A	160	45	ELECT. (220μF/25V)	PCH1128
	C153	A	187	59	ELECT.	CEAS101M10
	C155	A	124	79	CERAMIC	CKCYB561K50
	C156	A	181	71	CERAMIC	CGCYX333K25
	C157	A	177	73	CERAMIC	CGCYX103K25
	C158	A	172	78	AUDIO FILM	CFTXA104J50
	C159	A	168	73	CERAMIC	CGCYX104K25
	C160	A	157	77	ELECT.	PCH1127
	C161	A	157	73	AUDIO FILM	CFTXA104J50
	C162	A	154	62	ELECT.	PCH1127

Mark	No.	Side	X	Y	Description	Part No.
	C163	A	154	68	CERAMIC	CGCYX104K25
	C164	A	162	56	CERAMIC	CGCYX103K25
	C167	A	178	50	CERAMIC	CKCYF103Z50
	C168	A	190	55	CERAMIC	CGCYX333K25
	C169	A	192	65	CERAMIC	CGCYX103K25
	C170	A	192	68	CERAMIC	CKCYB332K50
	C171	A	191	78	CERAMIC	CKCYB102K50
	C172	A	187	79	CERAMIC	CKCYB472K50
	C205	A	124	71	CERAMIC	CKCYF103Z50
	C210	A	118	68	CERAMIC	CKCYF103Z50
	C211	A	75	58	ELECT. (220μF/25V)	PCH1128
	C212	A	61	59	ELECT. (220μF/25V)	PCH1128
	C215	A	99	51	CERAMIC	CKCYF103Z50
	C216	A	124	60	ELECT. (220μF/25V)	PCH1128
	C217	A	136	60	ELECT. (220μF/25V)	PCH1128
	C218	A	71	80	AUDIO FILM	CFTXA272J50
	C219	A	77	77	CERAMIC	CKCYF103Z50
	C301	A	66	90	ELECT.	CEZA470M50
	C302	A	83	122	ELECT. (220μF/25V)	PCH1128
	C303	A	91	101	ELECT.	CEZA101M25
	C306	A	98	97	CERAMIC	CKCYB152K50
	C307	A	100	88	CERAMIC	CGCYX473K25
	C308	A	98	103	CERAMIC	CGCYX103K25
	C309	A	183	51	ELECT.	CEASR47M50
	C321	A	216	35	AUDIO FILM	CFTXA104J50
	C322	A	215	27	ELECT. (220μF/25V)	PCH1128
	C341	A	109	107	ELECT. (100μF/50V)	PCH1126
	C342	A	100	112	MYLAR FILM	CQMA154J50
	C351	A	22	59	ELECT.	CEZA331M25
	C352	A	27	104	CERAMIC	CKCYF103Z50
	C353	A	32	90	CERAMIC	CKCYF103Z50
	C354	A	27	109	CERAMIC	CGCYX473K25
	C403	A	158	107	CERAMIC	CCCCH120J50
	C404	A	158	110	CERAMIC	CCCCH220J50
	C405	A	147	100	ELECT. (470μF/50V)	PCH1129
	C406	A	137	141	CERAMIC	CCCSL271J50
	C407	A	130	102	ELECT. (100μF/50V)	PCH1126
	C413	A	137	138	AUDIO FILM	CFTXA104J50
	C414	A	132	108	AUDIO FILM	CFTXA104J50
	C415	A	150	125	AUDIO FILM	CFTXA104J50
	C416	A	149	117	AUDIO FILM	CFTXA104J50
	C419	A	214	134	ELECT.	CEAS471M16
	C421	A	189	92	ELECT.	CEGA101M25
	C422	A	166	98	ELECT.	CEZA4R7M50
	C423	A	183	96	ELECT.	CEZA100M50
	C429	A	161	125	CERAMIC	CCCCH390J50
	C430	A	161	115	CERAMIC	CCCCH390J50
	C431	A	192	131	ELECT. (220μF/25V)	PCH1128
	C432	A	192	121	ELECT. (220μF/25V)	PCH1128
	C433	A	204	128	ELECT. (100μF/50V)	PCH1126
	C434	A	204	118	ELECT. (100μF/50V)	PCH1126
	C435	A	173	126	CERAMIC	CCCCH050C50
	C436	A	170	116	CERAMIC	CCCCH050C50
	C437	A	176	137	CERAMIC	CCCCH050C50
	C438	A	173	109	CERAMIC	CCCCH050C50
⚠	C441	A	219	102	AUDIO FILM	CFTXA152J50
⚠	C442	A	219	112	AUDIO FILM	CFTXA152J50
	C451	A	156	139	ELECT. (4.7μF/50V)	PCH1127
	C452	A	179	102	ELECT. (4.7μF/50V)	PCH1127
	C461	A	130	137	CERAMIC	CKCYF103Z50

RESISTORS

Mark	No.	Side	X	Y	Description	Part No.
	R153	A	121	79	CARBON FILM	RD1/6PM513J
	R154	A	104	80	CARBON FILM	RD1/6PM513J
	R155	A	153	77	CARBON FILM	RD1/6PM274J
	R156	A	154	65	CARBON FILM	RD1/6PM683J
	R157	A	159	51	CARBON FILM	RD1/6PM514J
	R158	A	168	50	CARBON FILM	RD1/6PM334J
	R160	A	184	77	CARBON FILM	RD1/6PM274J
	R185	A	156	59	CARBON FILM	RD1/6PM363J
	R186	A	153	54	CARBON FILM	RD1/6PM364J
	R201	A	165	72	CARBON FILM	RD1/6PM184J
	R205	A	121	61	CARBON FILM	RD1/6PM470J
	R206	A	162	68	CARBON FILM	RD1/6PM683J
	R210	A	115	58	CARBON FILM	RD1/6PM470J
	R211	A	145	61	CARBON FILM	RD1/6PM113J
	R212	A	150	64	CARBON FILM	RD1/6PM223J
	R213	A	148	64	CARBON FILM	RD1/6PM113J
	R214	A	140	64	CARBON FILM	RD1/6PM223J
	R215	A	97	54	CARBON FILM	RD1/6PM470J
	R216	A	60	72	CARBON FILM	RD1/6PM153J
	R218	A	71	77	CARBON FILM	RD1/6PM124J
	R219	A	80	76	CARBON FILM	RD1/6PM470J
	R226	A	57	69	CARBON FILM	RD1/6PM104J
	R227	A	60	69	CARBON FILM	RD1/6PM104J
	R228	A	71	64	CARBON FILM	RD1/6PM104J
	R229	A	62	64	CARBON FILM	RD1/6PM104J
	R231	A	139	82	CARBON FILM	RD1/6PM113J
	R232	A	150	77	CARBON FILM	RD1/6PM223J
	R233	A	148	77	CARBON FILM	RD1/6PM113J
	R234	A	144	79	CARBON FILM	RD1/6PM223J
	R241	A	136	80	CARBON FILM	RD1/6PM113J
	R242	A	130	79	CARBON FILM	RD1/6PM223J
	R243	A	127	79	CARBON FILM	RD1/6PM113J
	R244	A	133	84	CARBON FILM	RD1/6PM223J
	R301	A	84	93	CARBON FILM	RD1/6PM273J
	R302	A	90	91	CARBON FILM	RD1/6PM223J
	R303	A	87	91	CARBON FILM	RD1/6PM223J
	R304	A	92	91	CARBON FILM	RD1/6PM273J
	R305	A	98	91	CARBON FILM	RD1/6PM332J
	R306	A	98	94	CARBON FILM	RD1/6PM682J
	R307	A	95	91	CARBON FILM	RD1/6PM103J
	R308	A	90	104	CARBON FILM	RD1/6PM103J
	R309	A	191	48	CARBON FILM	RD1/6PM104J
	R310	A	89	112	CARBON FILM	RD1/6PM221J
	R311	A	89	115	CARBON FILM	RD1/6PM221J
	R312	A	89	118	CARBON FILM	RD1/6PM221J
	R319	A	24	52	CARBON FILM	RD1/6PM102J
	R321	A	69	120	CARBON FILM	RD1/6PM102J
	R323	A	216	38	CARBON FILM	RD1/4PU152J
	R341	A	112	111	CARBON FILM	RD1/6PM221J
	R342	A	112	117	CARBON FILM	RD1/6PM221J

Mark	No.	Side	X	Y	Description	Part No.
	R343	A	112	114	CARBON FILM	RD1/6PM221J
	R352	A	11	56	CARBON FILM	RD1/6PM562J
	R354	A	35	58	CARBON FILM	RD1/6PM103J
	R355	A	35	56	CARBON FILM	RD1/6PM103J
	R356	A	9	101	CARBON FILM	RD1/6PM103J
	R357	A	6	101	CARBON FILM	RD1/6PM103J
	R358	A	9	94	CARBON FILM	RD1/6PM103J
	R359	A	6	94	CARBON FILM	RD1/6PM103J
	R360	A	56	90	CARBON FILM	RD1/6PM103J
	R361	A	27	55	CARBON FILM	RD1/6PM103J
	R363	A	52	53	CARBON FILM	RD1/6PM103J
	R364	A	57	60	CARBON FILM	RD1/6PM103J
	R365	A	35	52	CARBON FILM	RD1/6PM103J
	R367	A	133	141	CARBON FILM	RD1/6PM103J
	R368	A	103	59	CARBON FILM	RD1/6PM103J
	R393	A	211	63	CARBON FILM	RD1/6PM244J
	R394	A	216	56	CARBON FILM	RD1/6PM102J
	R395	A	211	47	CARBON FILM	RD1/6PM223J
	R396	A	215	73	CARBON FILM	RD1/6PM223J
	R401	A	150	109	CARBON FILM	RD1/6PM102J
	R405	A	125	115	CARBON FILM	RD1/6PM471J
	R406	A	125	118	CARBON FILM	RD1/6PM471J
	R407	A	130	123	CARBON FILM	RD1/6PM471J
	R409	A	130	120	CARBON FILM	RD1/6PM471J
	R410	A	125	125	CARBON FILM	RD1/6PM471J
	R422	A	170	95	CARBON FILM	RD1/6PM102J
	R427	A	153	126	CARBON FILM	RD1/6PM223J
	R428	A	153	121	CARBON FILM	RD1/6PM223J
	R429	A	153	129	CARBON FILM	RD1/6PM223J
	R430	A	153	119	CARBON FILM	RD1/6PM223J
	R435	A	164	125	CARBON FILM	RD1/6PM623J
	R436	A	164	120	CARBON FILM	RD1/6PM623J
	R437	A	167	125	CARBON FILM	RD1/6PM623J
	R438	A	166	120	CARBON FILM	RD1/6PM623J
	R439	A	170	131	CARBON FILM	RD1/6PM104J
	R440	A	173	121	CARBON FILM	RD1/6PM104J
	R441	A	171	134	CARBON FILM	RD1/6PM104J
	R442	A	168	112	CARBON FILM	RD1/6PM104J
	R443	A	207	131	CARBON FILM	RD1/6PM223J
	R444	A	204	115	CARBON FILM	RD1/6PM223J
	R447	A	216	102	CARBON FILM	RD1/6PM471J
	R448	A	216	102	CARBON FILM	RD1/6PM471J
	R451	A	161	136	CARBON FILM	RD1/6PM473J
	R452	A	184	99	CARBON FILM	RD1/6PM473J
	R453	A	164	134	CARBON FILM	RD1/6PM470J
	R454	A	179	105	CARBON FILM	RD1/6PM470J
	R455	A	192	134	CARBON FILM	RD1/6PM102J
	R456	A	193	103	CARBON FILM	RD1/6PM102J
	R457	A	149	138	CARBON FILM	RD1/6PM102J
	R458	A	126	107	CARBON FILM	RD1/6PM102J
	R461	A	209	131	CARBON FILM	RD1/6PM561J
	R462	A	201	108	CARBON FILM	RD1/6PM561J
	R470	A	45	113	CARBON FILM	RD1/6PM470J
	R471	A	40	109	CARBON FILM	RD1/6PM470J
	R472	A	222	119	CARBON FILM	RD1/6PM102J
	R473	A	218	133	CARBON FILM	RD1/6PM102J
	R496	A	195	111	CARBON FILM	RD1/2PM152J
	R497	A	198	134	CARBON FILM	RD1/6PM471J
	R498	A	202	97	CARBON FILM	RD1/6PM471J
	VR151	A	103	72	VR(22kΩ)(B)	RCP1046
	VR152	A	113	72	VR(22kΩ)(B)	RCP1046

OTHERS

				PCB BINDER	VEF1008
	CN11	A	210	30	11PJUMPER CONNECTOR	52147-1110
	CN131	A	109	65	CONNECTOR	12FMZ-ABT
	CN201	A	106	85	CONNECTOR 6P	RKP-533
	CN202	A	86	75	MT 4P CONNECTOR	173981-4
	CN204	A	86	55	MT 5P CONNECTOR	173981-5
	CN351	A	6	53	17PJUMPER CONNECTOR	52147-1710
	CN352	A	14	82	15PJUMPER CONNECTOR	52147-1510
	CN401	A	32	110	3P JUMPER CONNECTOR	52147-0310
	JA301	A	234	31	OPTICAL OUTPUT JACK	TOTX178
	JA393	A	234	90	JACK	PKN1005
	JA401	A	234	107	JACK	DKB1013
	X351	A	43	91	CERAMIC RESONATOR (4.19MHz)	VSS1014
	X401	A	154	109	XTAL RES (OSC) (16.9344MHz)	PSS1008

SUB PCB ASSY

OTHERS

				PC BOARD SUB PCB	PNP1327

FUNCTION PCB ASSY

SEMICONDUCTORS

	D701	A	97	195	DIODE	1SS254
	D702	A	151	110	DIODE	1SS254
	D703	A	152	41	DIODE	1SS254
	D704	A	97	214	DIODE	1SS254
	D705	A	140	203	DIODE	1SS254
	D706	A	131	203	DIODE	1SS254
	D707	A	97	218	DIODE	1SS254
	D708	A	119	242	DIODE	1SS254
	D709	A	114	215	DIODE	1SS254
	D710	A	119	233	DIODE	1SS254

SWITCHES

	S701	A	91	192	SWITCH	PSG1005
	S702	A	111	192	SWITCH	PSG1005
	S703	A	91	226	SWITCH	PSG1005
	S704	A	91	255	SWITCH	PSG1005
	S706	A	156	281	SWITCH	PSG1005
	S708	A	137	261	SWITCH	PSG1005
	S709	A	156	266	SWITCH	PSG1005
	S712	A	144	264	SWITCH	PSG1005
	S713	A	147	286	SWITCH	PSG1005
	S714	A	159	253	SWITCH	PSG1005

Mark	No.	Side	X	Y	Description	Part No.
	S715	A	147	251	SWITCH	PSG1005
	S716	A	156	210	SWITCH	PSG1005
	S717	A	154	222	SWITCH	PSG1005
	S718	A	156	230	SWITCH	PSG1005
	S719	A	159	243	SWITCH	PSG1005
	S720	A	147	210	SWITCH	PSG1005
	S721	A	149	222	SWITCH	PSG1005
	S722	A	147	230	SWITCH	PSG1005
	S723	A	147	245	SWITCH	PSG1005
	S724	A	111	226	SWITCH	PSG1005
	S725	A	111	255	SWITCH	PSG1005
	S728	A	137	251	SWITCH	PSG1005
	S729	A	128	251	SWITCH	PSG1005
	S730	A	128	261	SWITCH	PSG1005
	S731	A	135	212	SWITCH	PSG1005
	S732	A	140	222	SWITCH	PSG1005
	S733	A	140	233	SWITCH	PSG1005
	S734	A	137	240	SWITCH	PSG1005
	S735	A	125	212	SWITCH	PSG1005
	S736	A	130	222	SWITCH	PSG1005
	S737	A	128	230	SWITCH	PSG1005
	S738	A	128	240	SWITCH	PSG1005
COILS						
	L701	A	134	52	AXIAL INDUCTOR	LAU010J
	L702	A	130	129	AXIAL INDUCTOR	LAU010J
CAPACITOR						
	C801	A	146	20	CERAMIC	CKCYF103Z50
RESISTOR						
	R701	A	143	47	CARBON FILM	RD1/6PM471J
OTHERS						
		A	145	30	REMOTE SENSOR	SBX1785-51
	V701	A	130	49	FL INDICATOR TUBE	PEL1085

SWITCH PCB ASSY

Mark	No.	Side	X	Y	Description	Part No.
SEMICONDUCTOR						
	D751	A	117	12	LED	PCX1019
SWITCHES						
	S751	A	91	65	SWITCH	PSG1005
	S752	A	91	96	SWITCH	PSG1005
	S753	A	91	12	SWITCH	PSG1005
	S754	A	91	44	SWITCH	PSG1005

HEADPHONE PCB ASSY

Mark	No.	Side	X	Y	Description	Part No.
COILS						
⚠	L501	A	100	129	AXIAL INDUCTOR	LAU010J
⚠	L502	A	100	132	AXIAL INDUCTOR	LAU010J
⚠	L503	A	102	153	AXIAL INDUCTOR	LAU010J
CAPACITORS						
⚠	C501	A	106	153	CERAMIC	CKCYF103Z50
⚠	C502	A	111	153	CERAMIC	CKCYF103Z50
⚠	C503	A	116	148	CERAMIC	CKCYF473Z50
RESISTOR						
	VR501	A	91	128	VARIABLE	PCS1003
OTHERS						
	JA501	A	112	130	HEADPHONE JACK	RKN1002

SERVO TRANS PCB ASSY

Mark	No.	Side	X	Y	Description	Part No.
SEMICONDUCTORS						
⚠	IC20	A	71	111	REGULATOR, IC	PQ05RR12
⚠	IC31	A	66	99	IC PROTECTOR	ICP-N10
⚠	D11	A	36	84	DIODE	S5688G
⚠	D12	A	36	92	DIODE	S5688G
⚠	D13	A	33	84	DIODE	S5688G
⚠	D14	A	33	92	DIODE	S5688G
⚠	D52	A	17	81	DIODE	S5688G
	D54	A	25	91	ZENNER DIODE	MTZJ18B
COILS						
	L13	A	40	82	FERRITE BEADS	PTH1016
	L14	A	42	82	FERRITE BEADS	PTH1013
	L15	A	55	97	FERRITE BEADS	PTH1015
CAPACITORS						
⚠	C11	A	14	85	CERAMIC	CGCYX473K25
	C12	A	9	91	PL. PROPYTENE	CQPA102J100
⚠	C15	A	72	68	CERAMIC	CGCYX473K25
⚠	C16	A	77	73	CERAMIC	CGCYX473K25
	C17	A	60	78	ELECTROLYTIC	CEZA010M50
	C18	A	68	78	ELECTROLYTIC	CEZA010M50
⚠	C19	A	72	132	CERAMIC	CKCYF103Z50
	C25	A	74	88	ELECT. (4700μF/16V)	PCH1119
	C26	A	55	88	ELECT. (4700μF/16V)	PCH1119
	C27	A	70	121	ELECT. (220μF/25V)	PCH1128
	C52	A	30	85	ELECT. (100μF/50V)	PCH1126
RESISTORS						
	R15	A	74	60	CARBON FILM	RD1/6PM100J
	R51	A	30	82	CARBON FILM	RD1/6PM103J
	R52	A	22	88	CARBON FILM	RD1/6PM152J
	R53	A	22	85	CARBON FILM	RD1/6PM152J
	R54	A	22	91	CARBON FILM	RD1/6PM152J
	R56	A	62	126	CARBON FILM	RD1/6PM103J
OTHERS						
⚠	CN1	A	20	21	TERMINAL	RKC-061

Mark	No.	Side	X	Y	Description	Part No.
MECHANISM PCB ASSY						
SWITCH						
	S610	A	23	16	SWITCH	DSG1016
OTHERS						
	CN610	A	23	7	MT CONNECTOR 4P	173979-4

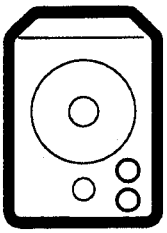
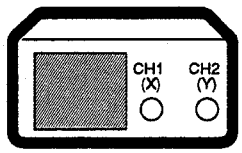
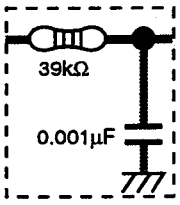
■ COAXIAL OUTPUT PCB ASSY (PWZ3256 : PD-S505/WVXK ONLY)

SEMICONDUCTOR						
	IC331	A	35	19	LOGIC IC	MC74HCU04N
COIL						
	L334	A	10	15	COIL	PTL1003
CAPACITORS						
	C331	A	19	5	CERAMIC	CKCYF103Z50
	C333	A	25	10	ELECT.	PCH1126
	C334	A	23	19	AUDIO FILM	CFTXA103J50
	C335	A	42	11	AELECT.	CEAS470M25
⚠	C336	A	37	6	AUDIO FILM	CFTXA104J50
⚠	C339	A	19	22	AUDIO FILM	CFTXA104J50
RESISTORS						
	R333	A	13	19	CARBON FILM	RD1/6PM750J
	R335	A	29	6	CARBON FILM	RD1/6PM122J
OTHERS						
	JA331	A	12	28	JACK	RKB1019

5. ADJUSTMENTS (調整方法)

5.1 PREPARATIONS (準備)

■ **Jigs and Measuring Instruments** (使用測定器/治工具類)

CD TEST DISC (YEDS-7)	⊖Precise screwdriver	⊖screwdriver (small)	⊕screwdriver (medium)
⊕screwdriver (large)	 Low-frequency oscillator	 Dual-trace oscilloscope (10 : 1 probe)	 Low pass filter (39kΩ + 0.001µF)

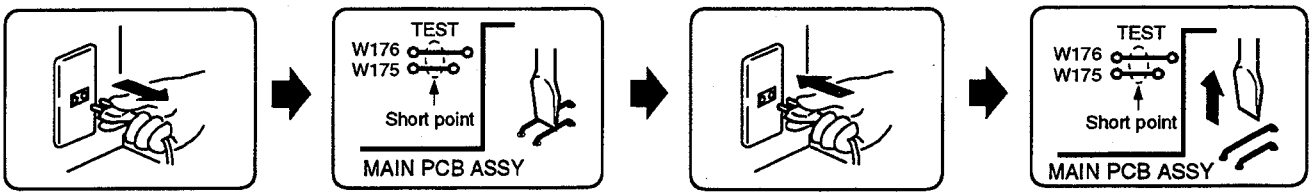
■ **Necessary Adjustment Points** (調整に必要な項目)

When (このような時)	Adjustment Points
Exchange PICKUP (ピックアップを交換した時)	1, 2, 3, 4, 5, 6 → Page 33 to 35
Exchange MAIN PCB ASSY (MAIN PCB ASSYを交換した時)	1, 2, 3, 4, 5, 6 → Page 33 to 35
Exchange SERVO MECH ASSY (サーボメカASSYを交換した時)	1, 2, 3, 4, 5, 6 → Page 33 to 35
Exchange SPINDLE MOTOR (スピンドルモーターを交換した時)	ADJ → Page 9

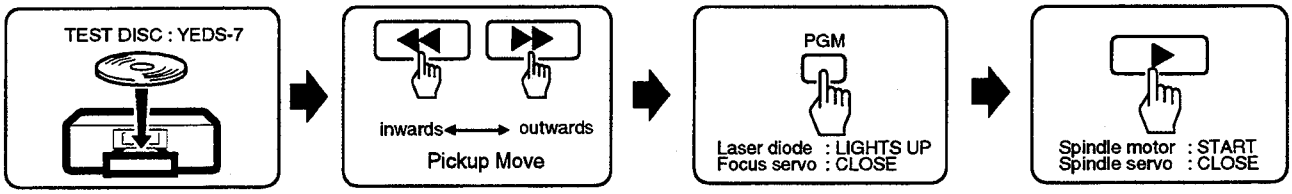
5.2 ADJUSTMENT (調整)

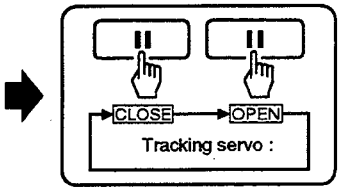
■ How to Start / Cancel Test Mode (テストモードの設定/解除)

TEST MODE : ON

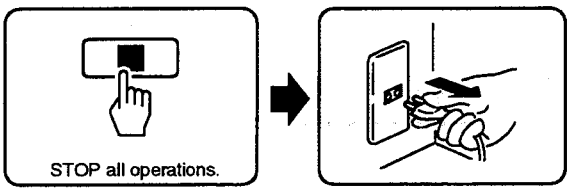


TEST MODE : PLAY

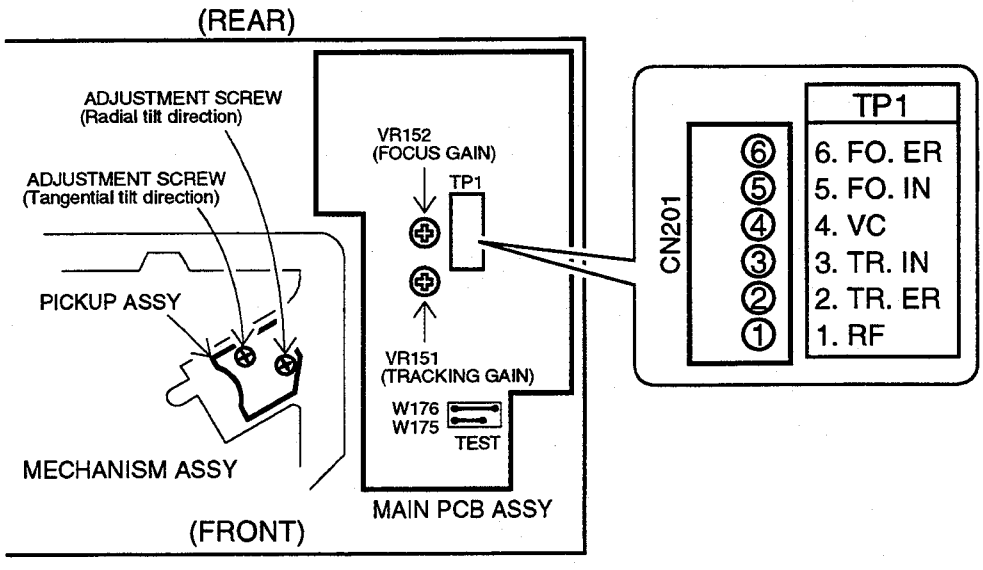




TEST MODE : STOP → CANCEL

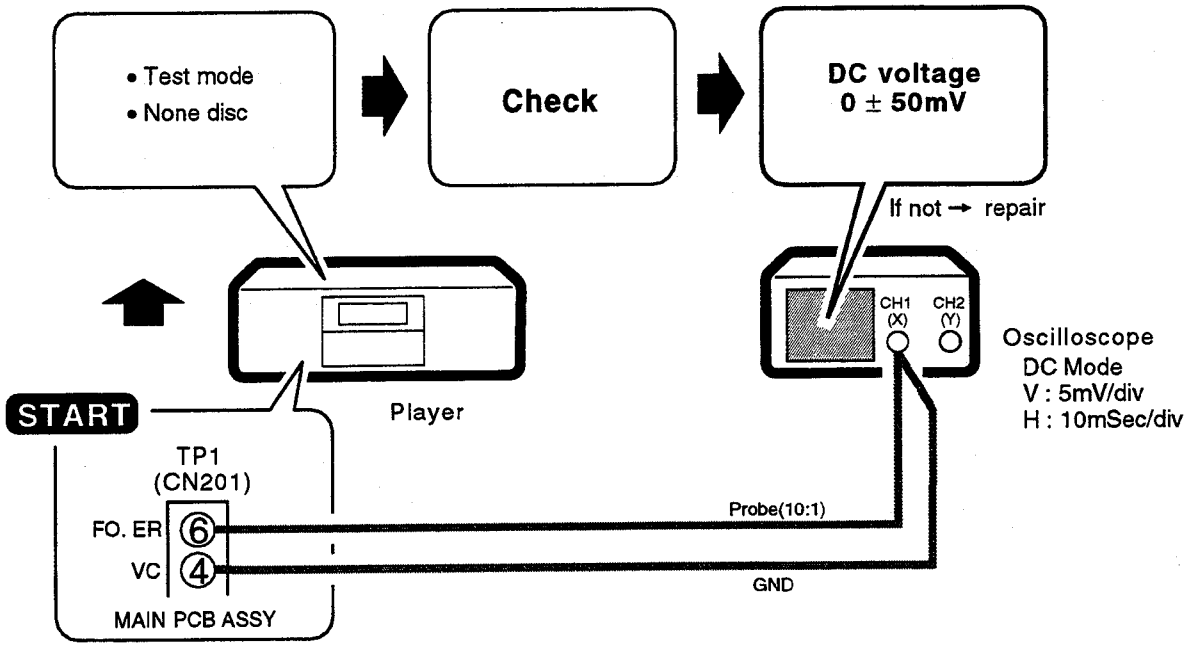


■ Adjustment Locations (テストポイントと調整用VRの位置)

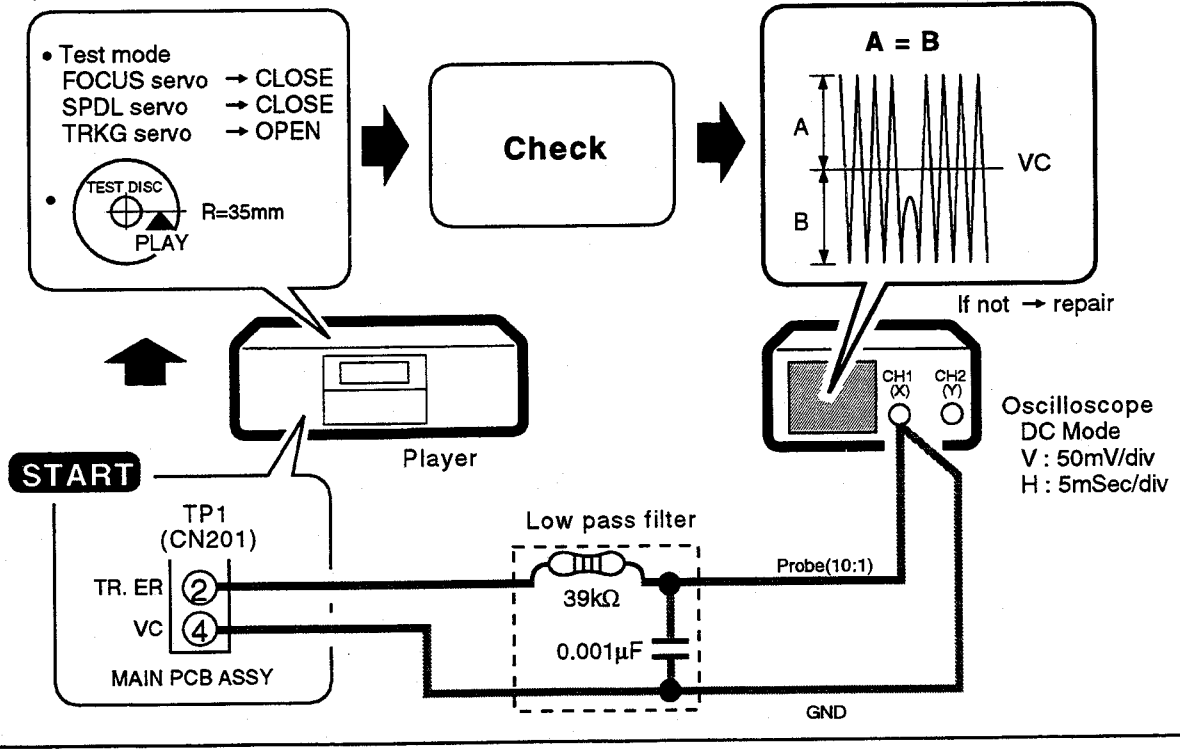


■ Check and Adjustment (確認，調整)

1. Focus Offset Check
(フォーカスオフセット確認)

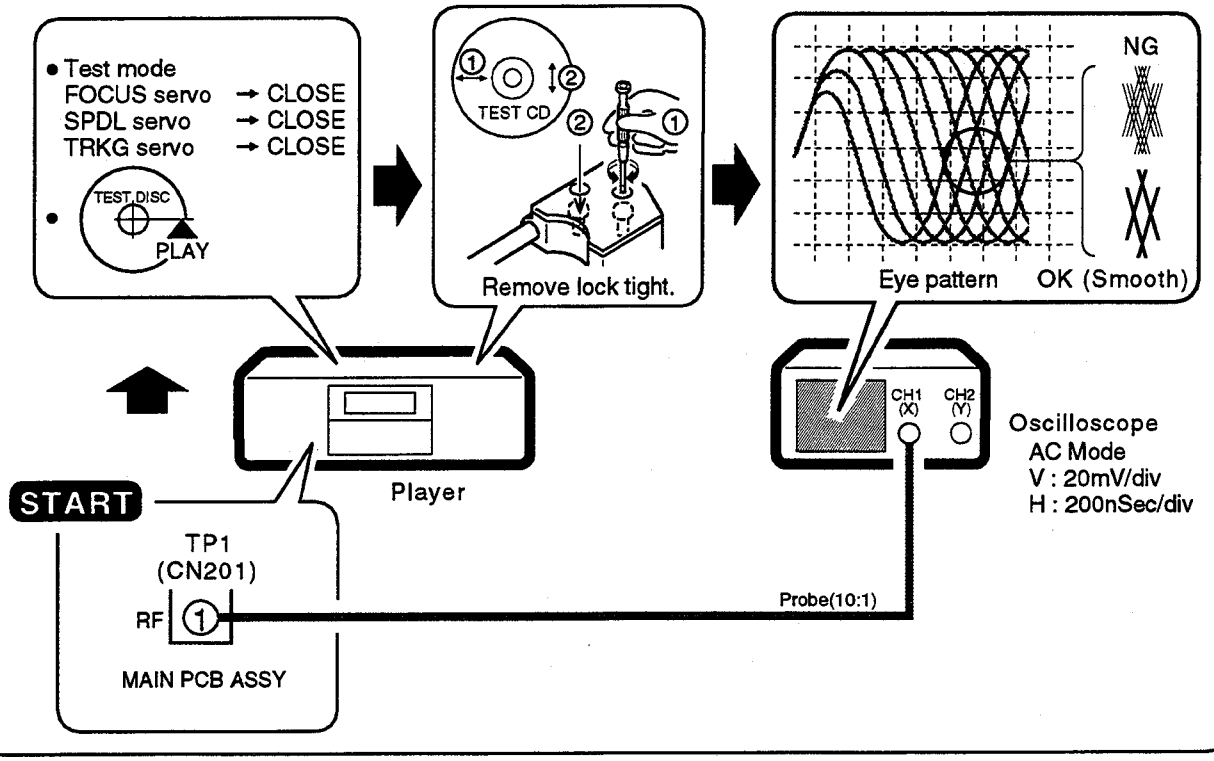


2. Tracking Error Balance Check
(トラッキングエラーバランス確認)



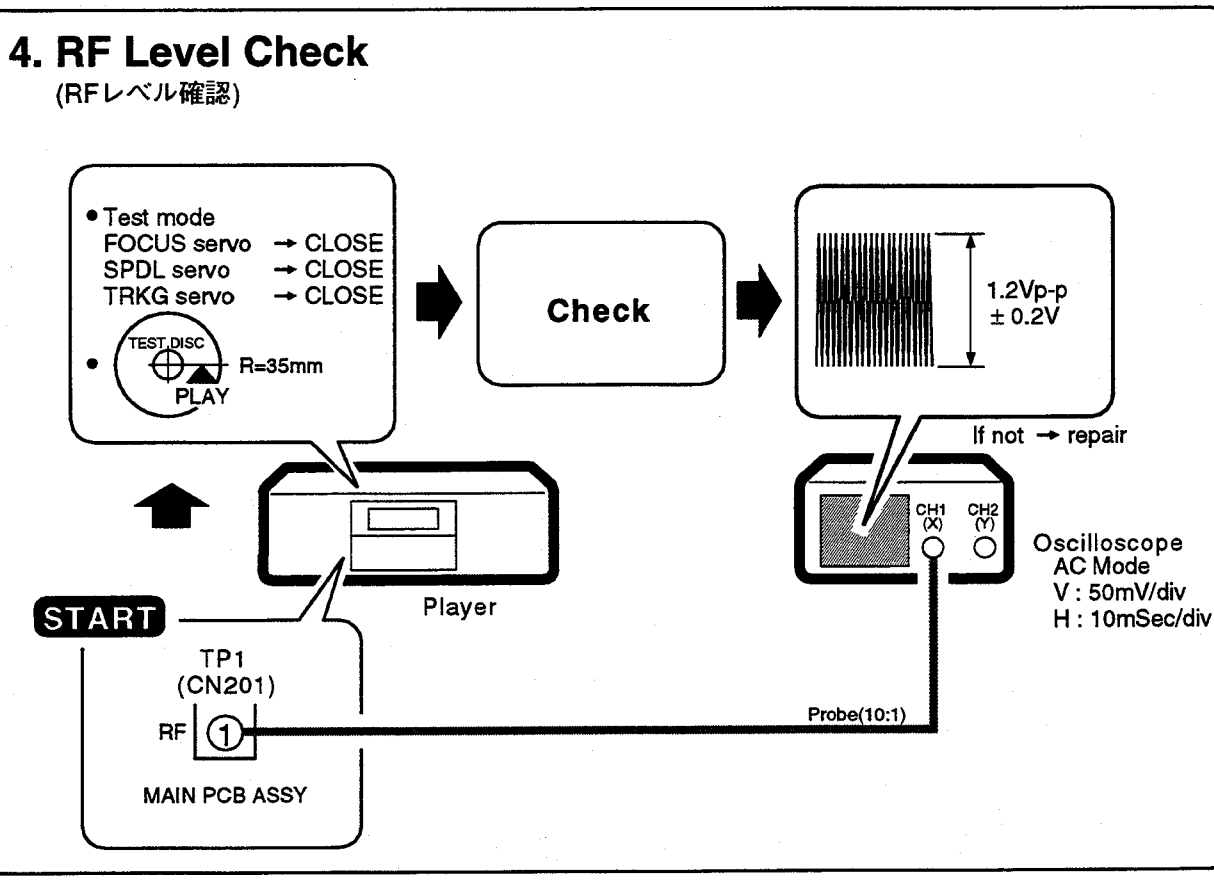
3. Pickup ① Radial / ② Tangential Direction Tilt Adjustment

(ピックアップ ① ラジアル方向, ② タンジェンシャル方向の傾き調整)

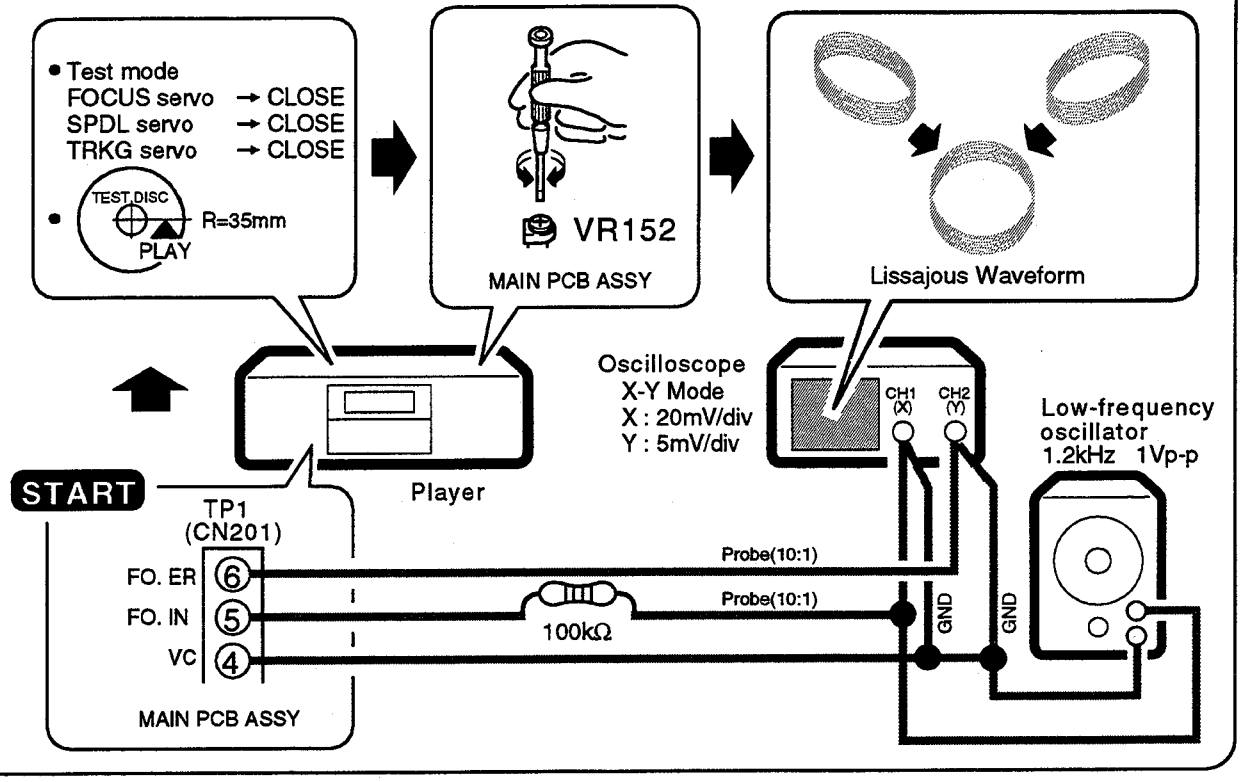


4. RF Level Check

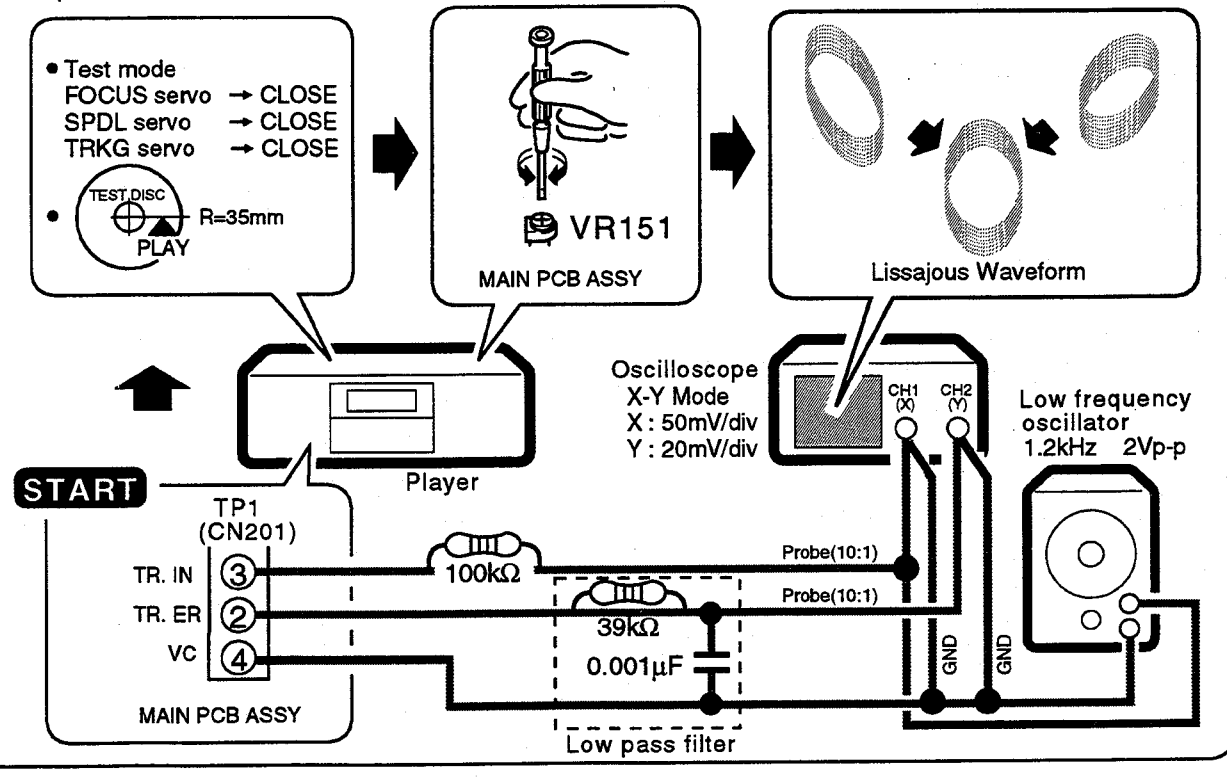
(RFレベル確認)



5. Focus Servo Loop Gain Adjustment
(フォーカスサーボループゲイン調整)



6. Tracking Servo Loop Gain Adjustment
(トラッキングサーボループゲイン調整)



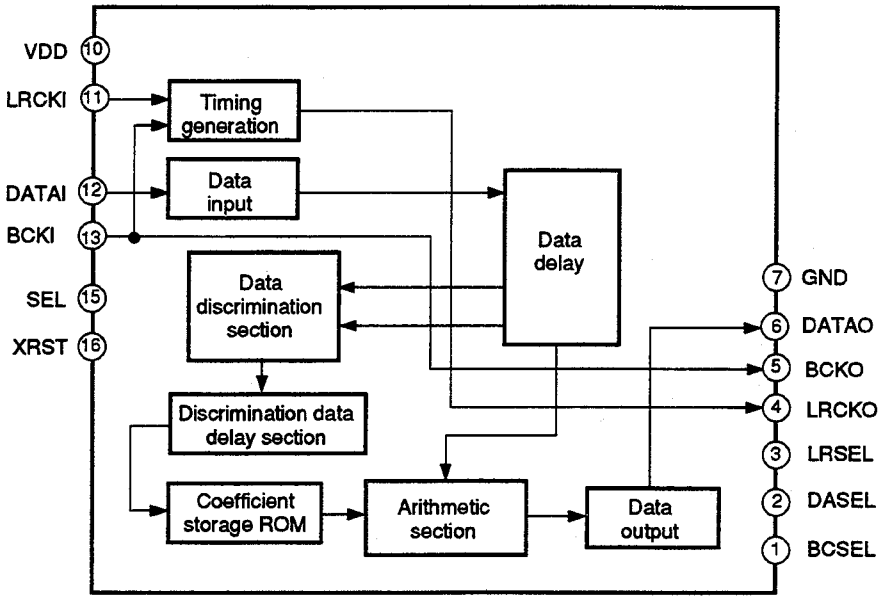
6. IC INFORMATION

•The information in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

■PD0236AD (MAIN PCD ASSY : IC341)

• HI-BIT IC

•Block Diagram



•Pin Function

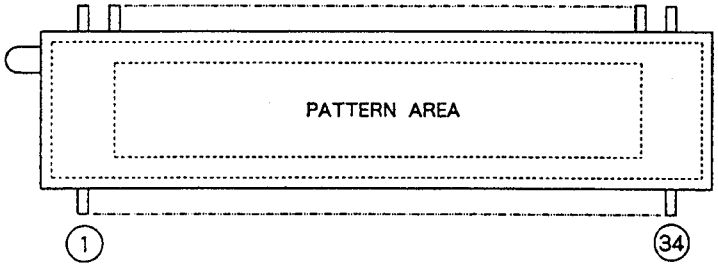
Ip : Built-in pull-up pin

Pin	Pin Name	I/O	Function
1	BCSEL	Ip	fs selection of bit clock H : BCKI = 48fs , L : BCKI = 64fs
2	DASEL	Ip	Output data length seltction when bit length expansion function is ON H : DATAO = 20 bits , L : DATAO = 24 bits
3	LRSEL	Ip	Polarity selection of LRCKO H : LRCKI = LRCKO , L : LRCKI = LRCKO
4	LRCKO	O	LR clock output
5	BCKO	O	Bit clock output
6	DATAO	O	Data output
7	GND	—	GND
8	(NC)	—	Open or connect to VDD
9	(NC)	—	Open or connect to VDD
10	VDD	—	Power supply pin
11	LRCKI	I	LR clock input
12	DATAI	I	Data input
13	BCKI	I	Bit clock input
14	(NC)	—	Open or connect to VDD
15	SEL	Ip	Bit length expansion process / Input data output selection H : Expansion process (output word length : 20/24 bits) , L : Input data output
16	XRST	I	Reset H : Normal , L : Reset

7. FL INFORMATION

■ PEL1085 (V701 : FUNCTION PCB ASSY)

• FL INDICATOR TUBE

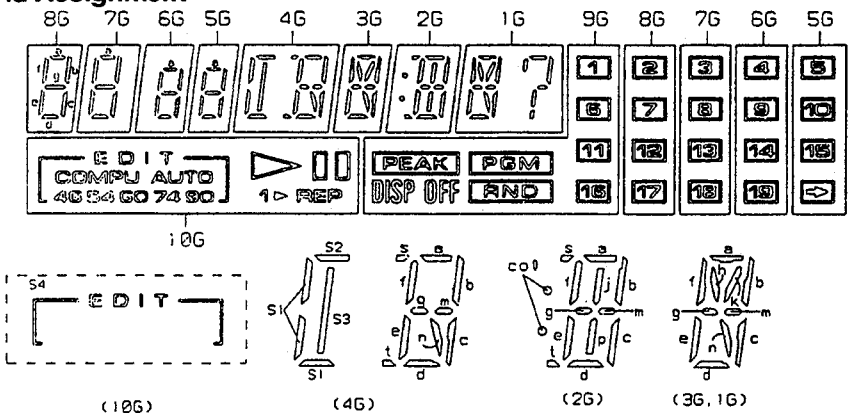


• Pin Connection

PIN No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
CONNECTION	F1	F2	NP	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	1G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NX	NX	NX	NX	NX	NX	P X	NX	F2

NOTE 1) F1, F2 ..... Filament
2) NP ..... No pin
3) NX ..... No extend pin
4) DL ..... Datum Line
5) 1G – 10G ..... Grid

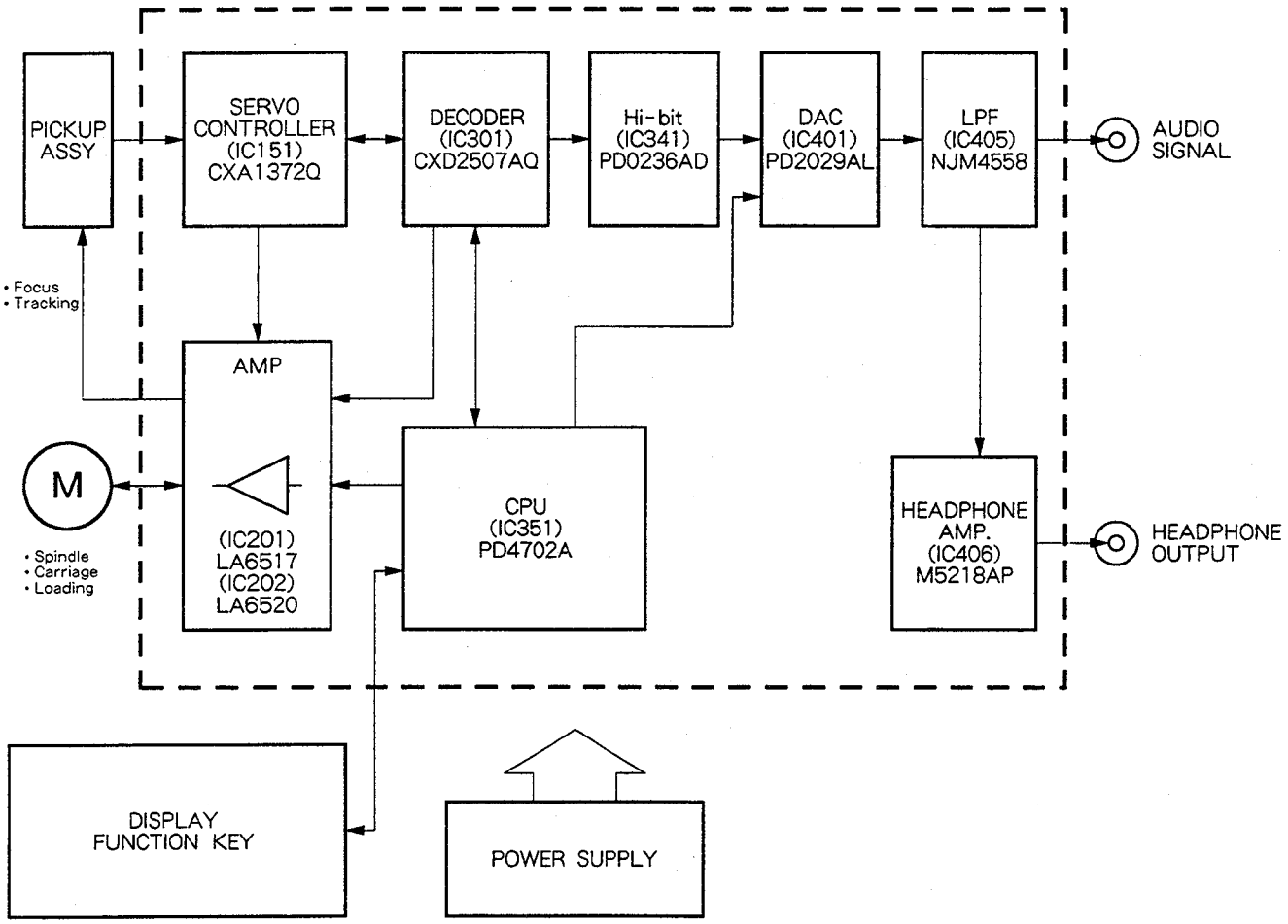
• Grid Assignment



• Anode Connection

	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	4G	RND	e	e	e	e	e	e	e	e
P2	5G	PGM	f	f	f	f	f	f	f	f
P3	6G	PEAK	g	g	g	g	g,m	g,m	g,m	g
P4	1▷	DISP OFF	-	-	-	-	s,t	-	s,t	m
P5	7G	-	a	a	a	a	a	a	a	a
P6	8G	-	b	b	b	b	b	b	b	b
P7	AUTO	-	c	c	c	c	c	c	c	c
P8	COMPU	-	d	d	d	d	d	d	d	d
P9	S4	1	2	3	4	5	S2	h	col	h
P10	▷	6	7	8	9	10	S3	k	j,p	k
P11	▯▯	11	12	13	14	15	n	n	-	n
P12	REP	16	17	18	19	⇨	S1	-	-	

8. BLOCK DIAGRAM



9. DISASSEMBLY/ASSEMBLY

9.1 REMOVE THE BONNET

- Disassembly : ①→②→③→④
- Assembly : ④→①→②→③

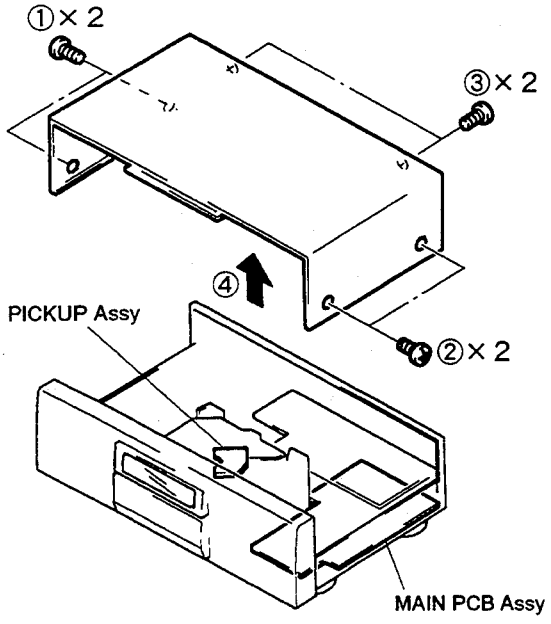


Fig. 1

9.2 REMOVE THE TRAY PANEL

Hold the Tray Panel with your hands as shown in Fig. 2, and grasp the Tray with your thumbs and then lift the Tray Panel up while pulling it toward you with the other fingers. (Fig. 3)

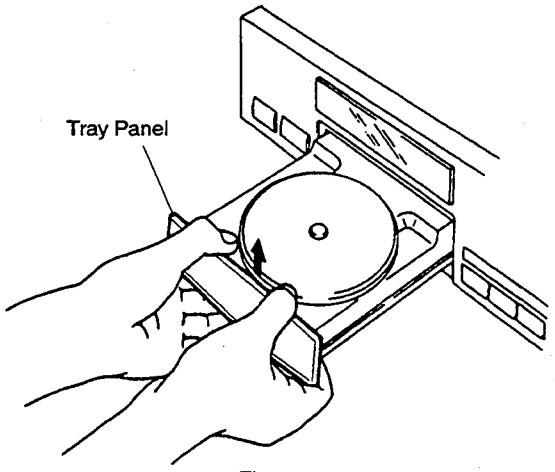


Fig. 2

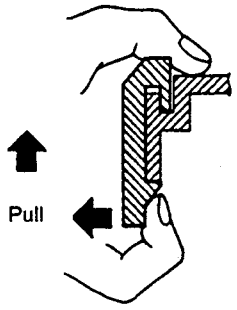


Fig. 3

9.3 INSTALL THE TRAY PANEL

Align the Tray Panel with the grooves located at both edges of the Tray. And then press it down till it stops. (Fig. 4)

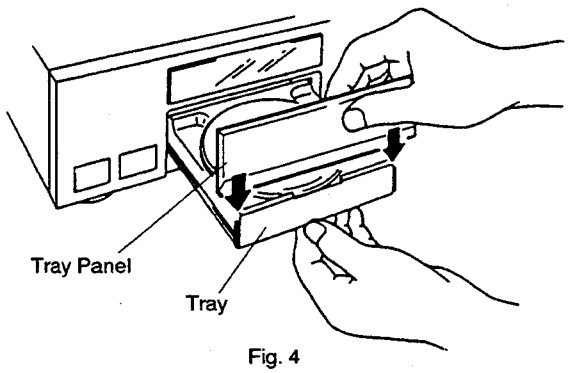
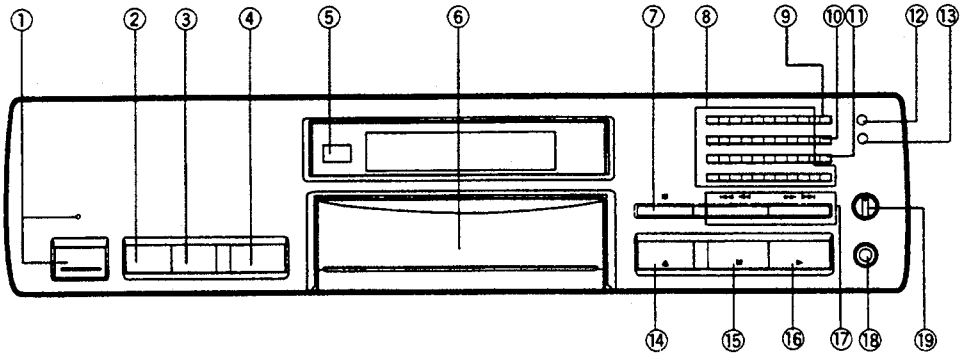


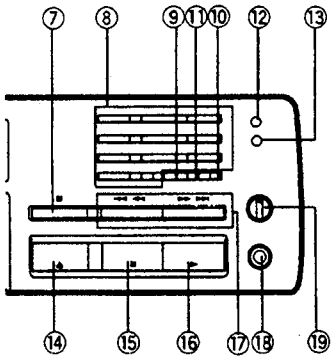
Fig. 4

10. PANEL FACILITIES

PD-S605



PD-S505
PD-S505-G



FRONT PANEL

① **POWER STANDBY/ON switch and STANDBY indicator**
② **DISPLAY OFF button**
③ **RANDOM button**
④ **HI-LITE SCAN button**
⑤ **Remote sensor**
Receives the signal from the remote control unit.
⑥ **Disc tray**
⑦ **Stop button (■)**
⑧ **Track number/Digit buttons**
PD-S605: (1 - 20, >20)
PD-S505/S505-G: (1 - 10, >10)
⑨ **PGM (Program) button**
⑩ **CLEAR button**
⑪ **TIME button**
⑫ **REPEAT button**
⑬ **COMPU/AUTO EDIT button**
(•COMPU/••AUTO)
⑭ **OPEN/CLOSE button (⏏)**
⑮ **Pause button (II)**
⑯ **Play button (►)**
⑰ **Track/Manual search buttons**
(|◄◄ ◄◄/►► ►►|)
⑱ **Headphones jack (PHONES)**
⑲ **Headphones volume control (PHONES LEVEL)**

11. SPECIFICATIONS

• PD-S605, PD-S505 and PD-S505-G/WYXK and WVXK

1. General

Type ..... Compact disc digital audio system
Power requirements ..... AC 220 - 240 V, 50/60 Hz
Power consumption ..... 13 W
Operating temperature ..... +5°C - +35°C
Weight ..... 3.8 kg
External dimensions ..... 420 (W) X 283 (D) X 110 (H) mm

2. Audio section

Frequency response ..... 2 Hz - 20 kHz
S/N ratio
PD-S605 ..... 108 dB or more (EIAJ)
PD-S505/S505-G ..... 106 dB or more (EIAJ)
Dynamic range ..... 96 dB or more (EIAJ)
Harmonic distortion
PD-S605 ..... 0.0028% or less (EIAJ)
PD-S505/S505-G ..... 0.003% or less (EIAJ)
Output voltage ..... 2.0 V
Wow and flutter ..... Limit of measurement (±0.001% W.PEAK) or less (EIAJ)
Channels ..... 2-channel (stereo)

3. Output terminal

Audio line output jacks
Optical digital output jack
CD-DECK SYNCHRO jack
Headphone jack (with volume control)

4. Accessories

- Remote control unit 1
- Size AAA/R03 dry cell batteries 2
- Output cable 1
- Operating instructions 1

NOTE:
Specifications and design subject to possible modification without notice, due to improvements.

• PD-S505/WPW, RD and RL

1. General

Type ..... Compact disc digital audio system
Power requirements
Round 2-pin AC plug model ..... 110 - 120/220 - 240 V, 50/60 Hz
Flat blade 2-pin AC plug model ..... 110 - 127/220 - 240 V, 50/60 Hz
Australian model ..... 220 - 240 V, 50/60 Hz
Power consumption ..... 13 W
Operating temperature ..... +5°C - +35°C
Weight ..... 3.8 kg
External dimensions ..... 420 (W) X 110 (H) X 283 (D) mm

2. Audio section

Frequency response ..... 2 Hz - 20 kHz
S/N ratio ..... 106 dB or more (EIAJ)
Dynamic range ..... 96 dB or more (EIAJ)
Harmonic distortion ..... 0.003% or less (EIAJ)
Output voltage ..... 2.0 V (EIAJ)
Wow and flutter ..... Limit of measurement (±0.001% W.PEAK) or less (EIAJ)
Channels ..... 2-channel (stereo)

3. Output terminal

Audio line output jacks
Control input/output jacks (Australian model only)
CD-DECK SYNCHRO jack
Headphones jack (with volume control)

4. Accessories

- Remote control unit 1
- AAA/R03 dry cell batteries 2
- Output cable 1
- Control cable (Australian model only) 1
- Operating instructions 1

NOTE:
Specifications and design subject to possible modification without notice, due to improvements.